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ABSTRACT

This task list is intended for use in planning and/or evaluating a competency-based course in aircraft mechanics. The guide outlines the tasks entailed in 24 different duties typically required of employees in the following occupations: airframe mechanic, power plant mechanic, aircraft mechanic, aircraft sheet metal worker, aircraft electrician, propeller repair person, fuel system mechanic, aircraft environmental mechanic, aircraft hydraulics/pneumatics mechanic, nondestructive tester, avionics mechanic, aircraft instrument repair person, power plant electrician, and aircraft welder. The following are among the duties covered: performing aircraft weight and balance operations; performing ground operations; using maintenance publications and maintaining forms and records; applying coverings and finishes; welding; repairing sheet metal structures; maintaining various aircraft and engine systems; inspecting electrical and fire protection systems; and performing assembly and rigging operations. The occupational duty/task lists are the result of an extensive two-step development process in which information on current occupational requirements was gathered from such sources as consortia, trade associations, and current curriculum materials and was then synthesized by industry representatives, vocational instructors, and state-level representatives. (MN)

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AIRFRAME MECHANIC
POWER PLANT MECHANIC
AIRCRAFT MECHANIC
AIRCRAFT SHEET METAL WORKER
AIRCRAFT ELECTRICIAN
PROPELLER REPAIR PERSON
FUEL SYSTEM MECHANIC
AIRCRAFT ENVIRONMENTAL MECHANIC
AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC
NON DESTRUCTIVE TESTER
AVIONICS MECHANIC
AIRCRAFT INSTRUMENT REPAIR PERSON
POWER PLANT ELECTRICIAN
AIRCRAFT WELDER

CE051534

2

OKLAHOMA OCCUPATIONAL TESTING CENTER

OKLAHOMA OCCUPATIONAL TESTING CENTER

INTRODUCTION:

Today's vocational instructors and administrators are faced with a myriad of important questions. They are searching for methods of providing accountability for students' acquisition of knowledge and skills as related to a constantly changing job market.

The Oklahoma Occupational Testing Center is in the business of eliminating some of the guesswork in answering today's tough questions. The professional staff, using a thorough and valid methodology, has developed duty/task lists for over 150 occupations in vocational education. Additional occupational duty/task lists will be made available as development is completed. These duty/task lists will help answer the following questions:

- Are students being prepared for today's jobs?
- What should today's vocational instructors be teaching?
- Is the curriculum addressing industry needs and is it up-to-date?
- How can vocational programs be improved?
- What in-service programs are needed for instructors?

BACKGROUND:

The occupational duty/task lists are the result of an extensive development process. Information regarding the occupational skills needed for employment is gathered from a number of sources such as consortia, trade associations, and current curriculum materials. This information is then synthesized by: 1) industry representatives, 2) vocational instructors, and 3) state level vocational representatives. The end result is a listing of occupations and the specific duties and tasks within each occupation. After dissemination for field review a committee of industry and vocational representatives revise the duty/task list to its final form.

USES:

The Oklahoma Occupational Testing Center's Duty/Task Lists are designed to be of value to a vocational program in several ways:

- Improving program planning
- Documenting industrial standards
- Evaluating curriculum and instruction
- Tracking individualized instruction*
- Using as a discussion tool with advisory committees
- Developing up-to-date job descriptions
- Performing self-evaluations
- Performing administrative program evaluations

INFORMATION:

To find out more about the Oklahoma Occupational Testing Center, call toll free:
1-800-654-4502.
Ask for our free catalog, listing over 150 occupations for which duty/task lists are available. CIMC curriculum materials related to these lists may also be available.

*A Progress Chart is provided for tracking individualized instruction.

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Oklahoma Occupational Testing Center

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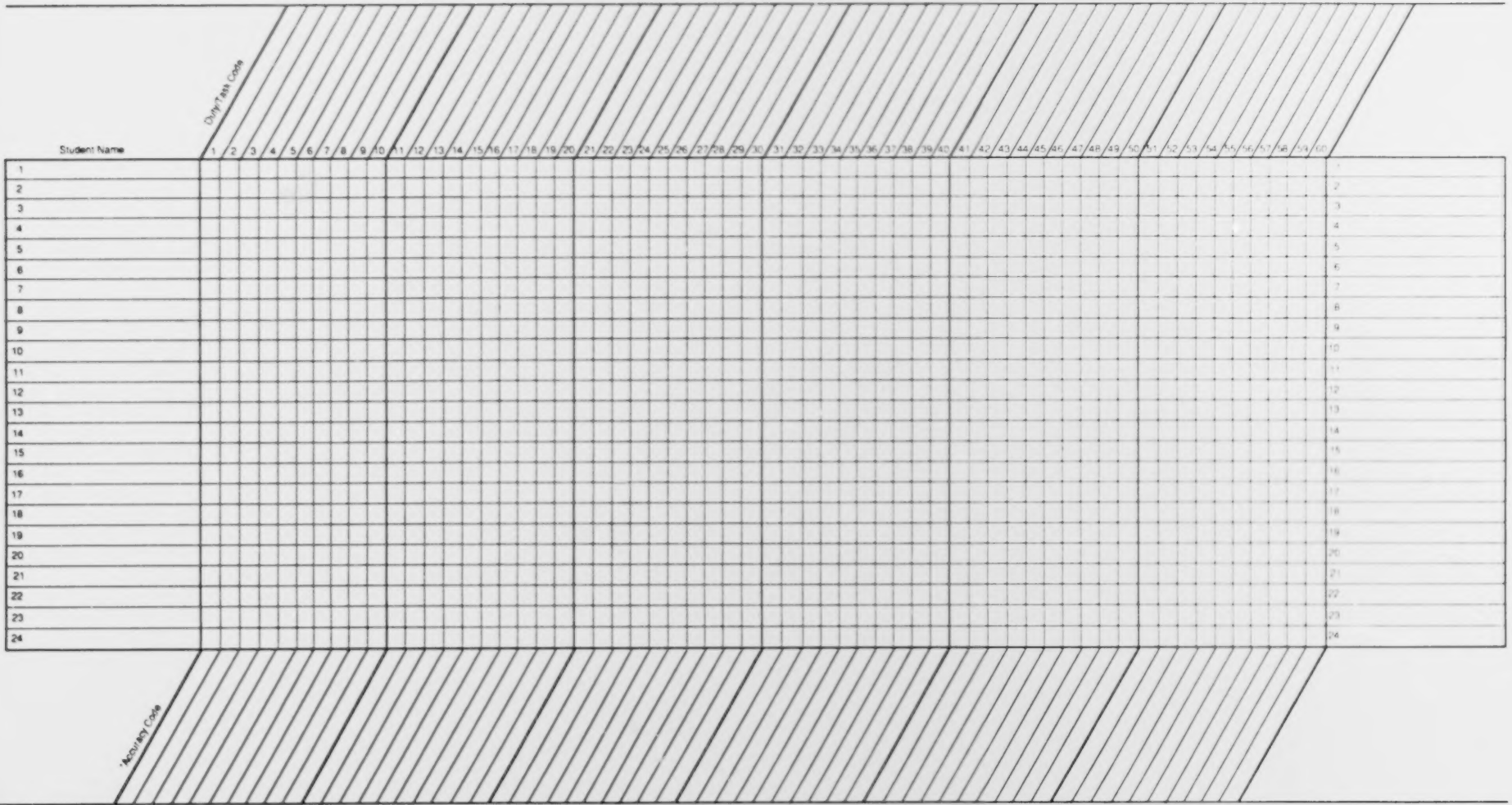
PROGRESS CHART

OKLAHOMA OCCUPATIONAL TESTING CENTER

Program

Oklahoma State Department of Vocational and Technical Education

Date



* 0 = No exposure - no information nor practice provided during training program; complete training required.
1 = Exposure only - general information provided with no practice time; close supervision needed and additional training required.
2 = Limited practice - has practiced during training program; additional training is required to develop skill.
3 = Moderately skilled - has performed independently during training program; limited additional training may be required.
4 = Skilled - can perform independently with no supervision.

This chart may be duplicated as needed.

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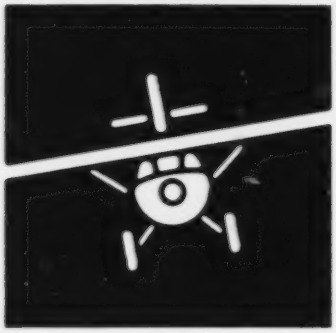
**This chart is intended for teacher file use only. Do not post.

DUTY/TASK LISTS

AIRCRAFT MECHANICS SERIES



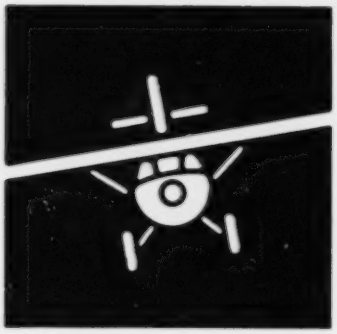
OCCUPATIONS:

1. Airframe Mechanic
2. Power Plant Mechanic
3. Aircraft Mechanic
4. Aircraft Sheet Metal Worker
5. Aircraft Electrician
6. Propeller Repair Person
7. Fuel System Mechanic
8. Aircraft Environmental Mechanic
9. Aircraft Hydraulics/Pneumatics Mechanic
10. Non-Destructive Tester
11. Avionics Mechanic
12. Aircraft Instrument Repair Person
13. Power Plant Electrician
14. Aircraft Welder

OKLAHOMA OCCUPATIONAL TESTING CENTER

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES



OCCUPATION 1: AIRFRAME MECHANIC

DUTIES:

A. Perform Aircraft Weight and Balance Operations
B. Perform Ground Operations and Servicing Duties
C. Perform Cleaning and Corrosion Control Operations
D. Use Maintenance Publications and Maintain Forms and Records
E. Maintain Wood Structures
F. Apply Aircraft Covering and Finishes
G. Repair Sheet Metal Structures
H. Perform Welding
I. Perform Assembly and Rigging
J. Maintain Aircraft Landing Gear Systems
K. Maintain Hydraulic and Pneumatic Power Systems
L. Maintain Cabin Atmosphere Control Systems
M. Maintain Aircraft and Engine Instruments and Avionics Systems
N. Inspect and Repair Aircraft Electrical Systems
O. Inspect Aircraft and Engine Fire Protection Systems
P. Maintain Aircraft Fuel Systems
Q. Maintain Lubrication Systems
R. Maintain Ignition Systems
T. Maintain Engine Cooling Systems
U. Maintain Engine Exhaust Systems
V. Maintain Aircraft Propellers/Rotors

OKLAHOMA OCCUPATIONAL TESTING CENTER

OCCUPATION: AIRFRAME MECHANIC

DUTY: Perform Aircraft Weight and Balance Operations

CODE	TASK	TAUGHT	COMMENTS
A.01	Research type certificate data sheet		
A.02	Determine weighing procedures		
A.03	Weigh aircraft		
A.04	Perform complete weight and balance check and record data		

OCCUPATION: AIRFRAME MECHANIC

DUTY: Perform Ground Operations and Servicing Duties

CODE	TASK	TAUGHT	COMMENTS
B.01	Start aircraft		
B.02	Taxi aircraft		
B.03	Move aircraft		
B.04	Service aircraft		
B.05	Secure aircraft		
B.06	Perform as signal person for taxiing aircraft		
B.07	Perform engine run-up		
B.08	Identify and select fuels		
B.09	Identify and select lubricants		
B.10	Operate radios		

OCCUPATION: **AIRFRAME MECHANIC**

DUTY: **Perform Cleaning and Corrosion Control Operations**

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: **AIRFRAME MECHANIC**

DUTY: **Use Maintenance Publications and Maintain Forms and Records**

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: **AIRFRAME MECHANIC**

DUTY: **Maintain Wood Structures**

CODE	TASK	TAUGHT	COMMENTS
E.01	Service and repair wood structures		
E.02	Identify wood defects		
E.03	Inspect wood structures		

OCCUPATION: AIRFRAME MECHANIC

DUTY: Apply Aircraft Covering and Finishes

CODE	TASK	TAUGHT	COMMENTS
F.01	Select and apply covering		
F.02	Inspect, test, and repair covering		
F.03	Apply trim, letters, and touch-up paint		
F.04	Identify and select aircraft finishing materials		
F.05	Apply paint and dope		
F.06	Inspect finishes and identify defects		

OCCUPATION: **AIRFRAME MECHANIC**

DUTY: **Repair Sheet Metal Structures**

CODE	TASK	TAUGHT	COMMENTS
G.01	Install special rivets and fasteners		
G.02	Inspect bonded structures		
G.03	Inspect and repair plastic, honeycomb, and laminated structures		
G.04	Inspect, check, service, and repair windows, doors, and interior furnishings		
G.05	Inspect and repair sheet metal structures		
G.06	Install conventional rivets		
G.07	Hand form, lay out, and bend sheet metal		
G.08	Identify and utilize appropriate metalworking tools and equipment		

OCCUPATION: **AIRFRAME MECHANIC**

DUTY: **Perform Welding**

CODE	TASK	TAUGHT	COMMENTS
H.01	Weld magnesium and titanium		
H.02	Solder stainless steel		
H.03	Fabricate tubular structures		
H.04	Solder, braze, gas-weld, and arc-weld steel		
H.05	Weld aluminum and stainless steel		
H.06	Identify and utilize appropriate welding tools and equipment		
H.07	Identify heat-treated items		
H.08	Apply corrosion preventative covering		

OCCUPATION: AIRFRAME MECHANIC

DUTY: Perform Assembly and Rigging

CODE	TASK	TAUGHT	COMMENTS
I.01	Rig rotary-wing aircraft		
I.02	Rig fixed-wing aircraft		
I.03	Check alignment of structures		
I.04	Reassemble aircraft		
I.05	Balance and rig movable structures		
I.06	Jack aircraft		
I.07	Identify and utilize appropriate rigging tools and equipment		
I.08	Identify and select aircraft hardware and materials		
I.09	Inspect and check welds		
I.10	Perform prescribed inspections on aircraft		

OCCUPATION: AIRFRAME MECHANIC

DUTY: Maintain Aircraft Landing Gear Systems

CODE	TASK	TAUGHT	COMMENTS
J.01	Inspect and repair retractable landing gear systems and components		
J.02	Inspect and repair landing gear struts		
J.03	Inspect and repair brakes, wheels, tires, and steering		
J.04	Inspect and repair ski, float, and hull installations		
J.05	Inspect and repair helicopter skids		

OCCUPATION: **AIRFRAME MECHANIC**

DUTY: **Maintain Hydraulic and Pneumatic Power Systems**

CODE	TASK	TAUGHT	COMMENTS
K.01	Repair hydraulic and pneumatic power system components		
K.02	Identify and select hydraulic fluids and seals		
K.03	Inspect and repair hydraulic and pneumatic power systems		
K.04	Identify and utilize appropriate hydraulic and pneumatic equipment		
K.05	Inspect, check, troubleshoot, service, and repair ice and rain control systems		

OCCUPATION: AIRFRAME MECHANIC

DUTY: Maintain Cabin Atmosphere Control Systems

CODE	TASK	TAUGHT	COMMENTS
L.01	Repair heating, cooling, air conditioning, pressurization, and oxygen system components		
L.02	Inspect, service, and repair heating, air conditioning, and pressurization systems		
L.03	Inspect, check, troubleshoot, service, and repair oxygen systems		

OCCUPATION: **AIRFRAME MECHANIC**

DUTY: **Maintain Aircraft and Engine Instruments and Avionics Systems**

CODE	TASK	TAUGHT	COMMENTS
M.01	Install instruments		
M.02	Inspect and repair heading, speed, altitude, attitude, and position systems		
M.03	Inspect, check, and service auto-pilot and approach control systems		
M.04	Inspect and service electronic communications and navigation systems		
M.05	Inspect and repair antenna and electronic equipment installations		
M.06	Identify and utilize special electronic tools and equipment		
M.07	Troubleshoot, service, and repair fluid rate-of-flow indicating systems		
M.08	Inspect, check, service, and repair engine pressure, temperature, and RPM indicating systems		

OCCUPATION: AIRFRAME MECHANIC

DUTY: Inspect and Repair Aircraft Electrical Systems

CODE	TASK	TAUGHT	COMMENTS
N.01	Repair aircraft electrical system components		
N.02	Install and service electric indicators, protective devices, wiring, and controls		
N.03	Inspect and repair AC and DC current electrical systems		
N.04	Identify and utilize appropriate electrical tools and equipment		
N.05	Inspect, check, and service speed and takeoff warning systems, electrical brake controls, and anti-skid systems		
N.06	Inspect, check, troubleshoot, service, and repair landing gear position indicating and warning systems		
N.07	Repair engine electrical system components		
N.08	Install engine electrical wiring, controls, switches, indicators, and protective devices		
N.09	Determine relationship of voltage, current, and resistance in electrical circuits		
N.10	Compute and measure capacitance and inductance		
N.11	Measure voltage, current, resistance, and continuity		
N.12	Read and interpret electrical circuit diagrams		
N.13	Inspect batteries		
N.14	Service batteries		

OCCUPATION: **AIRFRAME MECHANIC**

DUTY: **Inspect Aircraft and Engine Fire Protection Systems**

CODE	TASK	TAUGHT	COMMENTS
O.01	Inspect, check, and service smoke and carbon monoxide detection systems		
O.02	Inspect, check, service, troubleshoot, and repair aircraft fire detection and extinguishing systems		
O.03	Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems		
O.04	Perform special safety wiring		

OCCUPATION: **AIRFRAME MECHANIC**

DUTY: **Maintain Aircraft Fuel Systems**

CODE	TASK	TAUGHT	COMMENTS
P.01	Check fuel dump systems		
P.02	Inspect fuel management transfer and defueling system		
P.03	Inspect, check, and repair pressure fuel systems		
P.04	Repair aircraft fuel system components		
P.05	Inspect and repair fluid quantity indicating system		
P.06	Troubleshoot, service, and repair fluid pressure and temperature warning systems		
P.07	Inspect, check, service, troubleshoot, and repair aircraft fuel systems		
P.08	Inspect, check, and service water injection systems		
P.09	Overhaul carburetor		
P.10	Repair engine fuel metering system components		
P.11	Inspect, troubleshoot, and repair reciprocating and turbine engine fuel metering systems		
P.12	Repair engine fuel system components		
P.13	Inspect, check, service, troubleshoot, and repair engine fuel systems		
P.14	Install rigid and flexible fluid lines and fittings		
P.15	Identify and utilize special fluid line tools		
P.16	Perform tube flaring		
P.17	Perform tube bending		
P.18	Fabricate flareless fitting tube assemblies		

OCCUPATION: AIRFRAME MECHANIC

DUTY: Maintain Aircraft Fuel Systems (Continued)

CODE	TASK	TAUGHT	COMMENTS
P.19	Fabricate a double flare		
P.20	Fabricate a flexible hose assembly		
P.21	Defuel aircraft		

OCCUPATION: AIRFRAME MECHANIC

DUTY: Maintain Lubrication Systems

CODE	TASK	TAUGHT	COMMENTS
Q.01	Identify and select lubricants		
Q.02	Repair engine lubrication system components		
Q.03	Inspect, check, service, troubleshoot, and repair engine lubrication systems		
Q.04	Inspect oil temperature regulating system		

OCCUPATION: **AIRFRAME MECHANIC**

DUTY: **Maintain Ignition Systems**

CODE	TASK	TAUGHT	COMMENTS
R.01	Overhaul magneto and ignition harness		
R.02	Repair engine ignition components		
R.03	Inspect, check, service, troubleshoot, and repair reciprocating and turbine engine ignition systems		
R.04	Service spark plugs		

OCCUPATION: **AIRFRAME MECHANIC**

DUTY: **Maintain Engine Cooling Systems**

CODE	TASK	TAUGHT	COMMENTS
T.01	Repair engine cooling system components		
T.02	Inspect, check, service, troubleshoot, and repair cooling systems		

OCCUPATION: **AIRFRAME MECHANIC**

DUTY: **Maintain Engine Exhaust Systems**

CODE	TASK	TAUGHT	COMMENTS
U.01	Repair engine exhaust system components		
U.02	Inspect, check, troubleshoot, service, and repair engine exhaust systems		

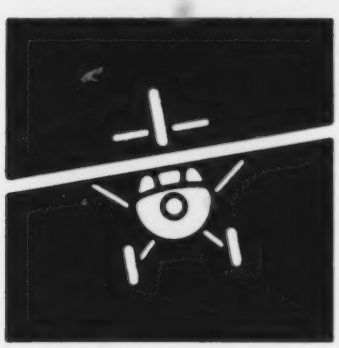
OCCUPATION: AIRFRAME MECHANIC

DUTY: Maintain Aircraft Propellers/Rotors

CODE	TASK	TAUGHT	COMMENTS
V.01	Inspect, check, service, and repair propeller synchronizing and ice control systems		
V.02	Identify and select propeller lubricants		
V.03	Track and balance propellers		
V.04	Repair propeller control system components		
V.05	Inspect and repair fixed-pitch, constant speed, and feathering propellers and systems		
V.06	Troubleshoot, remove, and install propellers		
V.07	Track and balance main rotors		
V.08	Track and adjust tail rotors		
V.09	Inspect, service, troubleshoot, and repair rotor systems		

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES



OCCUPATION 2: POWER PLANT MECHANIC

DUTIES:

- B. Perform Ground Operations and Servicing Duties
- C. Perform Cleaning and Corrosion Control Operations
- D. Use Maintenance Publications and Maintain Forms and Records
- H. Perform Welding
- I. Perform Assembly and Rigging
- K. Maintain Hydraulic and Pneumatic Power Systems
- L. Maintain Cabin Atmosphere Control Systems
- M. Maintain Aircraft and Engine Instruments and Avionics Systems
- N. Inspect and Repair Aircraft Electrical Systems
- O. Inspect Aircraft and Engine Fire Protection Systems
- P. Maintain Aircraft Fuel Systems
- Q. Maintain Lubrication Systems
- R. Maintain Ignition Systems
- S. Maintain Induction Systems
- T. Maintain Engine Cooling Systems
- U. Maintain Engine Exhaust Systems
- V. Maintain Aircraft Propellers/Rotors
- W. Inspect and Repair Reciprocating Engines
- X. Inspect and Repair Turbo-Jet and Turbo-Prop Engines

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OCCUPATION: **POWER PLANT MECHANIC**

DUTY: **Perform Ground Operations and Servicing Duties**

CODE	TASK	TAUGHT	COMMENTS
B.01	Start aircraft		
B.02	Taxi aircraft		
B.03	Move aircraft		
B.04	Service aircraft		
B.05	Secure aircraft		
B.06	Perform as signal person for taxiing aircraft		
B.07	Perform engine run-up		
B.08	Identify and select fuels		
B.09	Identify and select lubricants		
B.10	Operate radios		

OCCUPATION: POWER PLANT MECHANIC

DUTY: Perform Cleaning and Corrosion Control Operations

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: **POWER PLANT MECHANIC**

DUTY: **Use Maintenance Publications and Maintain Forms and Records**

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: **POWER PLANT MECHANIC**

DUTY: **Perform Welding**

CODE	TASK	TAUGHT	COMMENTS
H.01	Weld magnesium and titanium		
H.02	Solder stainless steel		
H.03	Fabricate tubular structures		
H.04	Solder, braze, gas-weld, and arc-weld steel		
H.05	Weld aluminum and stainless steel		
H.06	Identify and utilize appropriate welding tools and equipment		
H.07	Identify heat-treated items		
H.08	Apply corrosion preventative covering		

OCCUPATION: **POWER PLANT MECHANIC**

DUTY: **Perform Assembly and Rigging**

CODE	TASK	TAUGHT	COMMENTS
I.08	Identify and select aircraft hardware and materials		
I.09	Inspect and check welds		

36

OCCUPATION: POWER PLANT MECHANIC

DUTY: Maintain Hydraulic and Pneumatic Power Systems

CODE	TASK	TAUGHT	COMMENTS
K.01	Repair hydraulic and pneumatic power system components		
K.02	Identify and select hydraulic fluids and seals		
K.03	Inspect and repair hydraulic and pneumatic power systems		
K.04	Identify and utilize appropriate hydraulic and pneumatic equipment		
K.05	Inspect, check, troubleshoot, service, and repair ice and rain control systems		

OCCUPATION: **POWER PLANT MECHANIC**

DUTY: **Maintain Cabin Atmosphere Control Systems**

CODE	TASK	TAUGHT	COMMENTS
L.01	Repair heating, cooling, air conditioning, pressurization, and oxygen system components		
L.02	Inspect, service, and repair heating, air conditioning, and pressurization systems		

OCCUPATION: **POWER PLANT MECHANIC**

DUTY: **Maintain Aircraft and Engine Instruments and Avionics Systems**

CODE	TASK	TAUGHT	COMMENTS
M.01	Install instruments		
M.02	Inspect and repair heading, speed, altitude, attitude, and position systems		
M.03	Inspect, check, and service auto-pilot and approach control systems		
M.04	Inspect and service electronic communications and navigation systems		
M.05	Inspect and repair antenna and electronic equipment installations		
M.06	Identify and utilize special electronic tools and equipment		
M.07	Troubleshoot, service, and repair fluid rate-of-flow indicating systems		
M.08	Inspect, check, service, and repair engine pressure, temperature, and RPM indicating systems		

OCCUPATION: **POWER PLANT MECHANIC**

DUTY: **Inspect and Repair Aircraft Electrical Systems**

CODE	TASK	TAUGHT	COMMENTS
N.01	Repair aircraft electrical system components		
N.02	Install and service electric indicators, protective devices, wiring, and controls		
N.03	Inspect and repair AC and DC current electrical systems		
N.04	Identify and utilize appropriate electrical tools and equipment		
N.05	Inspect, check, and service speed and takeoff warning systems, electrical brake controls, and anti-skid systems		
N.06	Inspect, check, troubleshoot, service, and repair landing gear position indicating and warning systems		
N.07	Repair engine electrical system components		
N.08	Install engine electrical wiring, controls, switches, indicators, and protective devices		
N.09	Determine relationship of voltage, current, and resistance in electrical circuits		
N.10	Compute and measure capacitance and inductance		
N.11	Measure voltage, current, resistance, and continuity		
N.12	Read and interpret electrical circuit diagrams		
N.13	Inspect batteries		
N.14	Service batteries		

OCCUPATION: POWER PLANT MECHANIC

DUTY: Inspect Aircraft and Engine Fire Protection Systems

CODE	TASK	TAUGHT	COMMENTS
O.01	Inspect, check, and service smoke and carbon monoxide detection systems		
O.02	Inspect, check, service, troubleshoot, and repair aircraft fire detection and extinguishing systems		
O.03	Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems		
O.04	Perform special safety wiring		

OCCUPATION: **POWER PLANT MECHANIC**

DUTY: **Maintain Aircraft Fuel Systems**

CODE	TASK	TAUGHT	COMMENTS
P.01	Check fuel dump systems		
P.02	Inspect fuel management transfer and defueling system		
P.03	Inspect, check, and repair pressure fuel systems		
P.04	Repair aircraft fuel system components		
P.05	Inspect and repair fluid quantity indicating system		
P.06	Troubleshoot, service, and repair fluid pressure and temperature warning systems		
P.07	Inspect, check, service, troubleshoot, and repair aircraft fuel systems		
P.08	Inspect, check, and service water injection systems		
P.09	Overhaul carburetor		
P.10	Repair engine fuel metering system components		
P.11	Inspect, troubleshoot, and repair reciprocating and turbine engine fuel metering systems		
P.12	Repair engine fuel system components		
P.13	Inspect, check, service, troubleshoot, and repair engine fuel systems		
P.14	Install rigid and flexible fluid lines and fittings		
P.15	Identify and utilize special fluid line tools		
P.16	Perform tube flaring		
P.17	Perform tube bending		
P.18	Fabricate flareless fitting tube assemblies		

OCCUPATION: POWER PLANT MECHANIC

DUTY: Maintain Aircraft Fuel Systems (Continued)

CODE	TASK	TAUGHT	COMMENTS
P.19	Fabricate a double flare		
P.20	Fabricate a flexible hose assembly		
P.21	Defuel aircraft		

OCCUPATION: **POWER PLANT MECHANIC**

DUTY: **Maintain Lubrication Systems**

CODE	TASK	TAUGHT	COMMENTS
Q.01	Identify and select lubricants		
Q.02	Repair engine lubrication system components		
Q.03	Inspect, check, service, troubleshoot, and repair engine lubrication systems		
Q.04	Inspect oil temperature regulating system		

OCCUPATION: **POWER PLANT MECHANIC**

DUTY: **Maintain Ignition Systems**

CODE	TASK	TAUGHT	COMMENTS
R.01	Overhaul magneto and ignition harness		
R.02	Repair engine ignition components		
R.03	Inspect, check, service, troubleshoot, and repair reciprocating and turbine engine ignition systems		
R.04	Service spark plugs		

OCCUPATION: **POWER PLANT MECHANIC**

DUTY: **Maintain Induction Systems**

CODE	TASK	TAUGHT	COMMENTS
S.01	Inspect, check, troubleshoot, service, and repair turbo-charger system		
S.02	Inspect, check, service, and repair heat exchangers (inner-coolers) and superchargers		
S.03	Inspect, check, service, and repair carburetor air intake and induction systems		

OCCUPATION: **POWER PLANT MECHANIC**

DUTY: **Maintain Engine Cooling Systems**

CODE	TASK	TAUGHT	COMMENTS
T.01	Repair engine cooling system components		
T.02	Inspect, check, service, troubleshoot, and repair cooling systems		

OCCUPATION: **POWER PLANT MECHANIC**

DUTY: **Maintain Engine Exhaust Systems**

CODE	TASK	TAUGHT	COMMENTS
U.01	Repair engine exhaust system components		
U.02	Inspect, check, troubleshoot, service, and repair engine exhaust systems		

OCCUPATION: POWER PLANT MECHANIC

DUTY: Maintain Aircraft Propellers/Rotors

CODE	TASK	TAUGHT	COMMENTS
V.01	Inspect, check, service, and repair propeller synchronizing and ice control systems		
V.02	Identify and select propeller lubricants		
V.03	Track and balance propellers		
V.04	Repair propeller control system components		
V.05	Inspect and repair fixed-pitch, constant speed, and feathering propellers and systems		
V.06	Troubleshoot, remove, and install propellers		
V.07	Track and balance main rotors		
V.08	Track and adjust tail rotors		
V.09	Inspect, service, troubleshoot, and repair rotor systems		

OCCUPATION: POWER PLANT MECHANIC

DUTY: Inspect and Repair Reciprocating Engines

CODE	TASK	TAUGHT	COMMENTS
W.01	Top overhaul engine		
W.02	Major overhaul engine		
W.03	Remove and install engine		
W.04	Perform engine inspection		

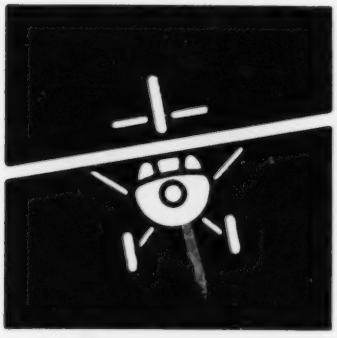
OCCUPATION: POWER PLANT MECHANIC

DUTY: Inspect and Repair Turbo-Jet and Turbo-Prop Engines

CODE	TASK	TAUGHT	COMMENTS
X.01	Overhaul turbine engine		
X.02	Inspect and repair turbine engine installation		
X.03	Inspect, troubleshoot, and adjust turbine engine components		

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES



OCCUPATION 3: AIRCRAFT MECHANIC

DUTIES:

A. Perform Aircraft Weight and Balance Operations
B. Perform Ground Operations and Servicing Duties
C. Perform Cleaning and Corrosion Control Operations
D. Use Maintenance Publications and Maintain Forms and Records
E. Maintain Wood Structures
F. Apply Aircraft Covering and Finishes
G. Repair Sheet Metal Structures
H. Perform Welding
I. Perform Assembly and Rigging
J. Maintain Aircraft Landing Gear Systems
L. Maintain Cabin Atmosphere Control Systems
M. Maintain Aircraft and Engine Instruments and Avionics Systems
N. Inspect and Repair Aircraft Electrical Systems
O. Inspect Aircraft and Engine Fire Protection Systems
P. Maintain Aircraft Fuel Systems
Q. Maintain Lubrication Systems
R. Maintain Ignition Systems
S. Maintain Induction Systems
T. Maintain Engine Cooling Systems
U. Maintain Engine Exhaust Systems
V. Maintain Aircraft Propellers/Rotors
W. Inspect and Repair Reciprocating Engines
X. Inspect and Repair Turbo-Jet and Turbo-Prop Engines

OKLAHOMA OCCUPATIONAL TESTING CENTER

OCCUPATION: **AIRCRAFT MECHANIC**

DUTY: **Perform Aircraft Weight and Balance Operations**

CODE	TASK	TAUGHT	COMMENTS
A.01	Research type certificate data sheet		
A.02	Determine weighing procedures		
A.03	Weigh aircraft		
A.04	Perform complete weight and balance check and record data		

OCCUPATION: **AIRCRAFT MECHANIC**

DUTY: **Perform Ground Operations and Servicing Duties**

CODE	TASK	TAUGHT	COMMENTS
B.01	Start aircraft		
B.02	Taxi aircraft		
B.03	Move aircraft		
B.04	Service aircraft		
B.05	Secure aircraft		
B.06	Perform as signal person for taxiing aircraft		
B.07	Perform engine run-up		
B.08	Identify and select fuels		
B.09	Identify and select lubricants		
B.10	Operate radios		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Perform Cleaning and Corrosion Control Operations

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Use Maintenance Publications and Maintain Forms and Records

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: **AIRCRAFT MECHANIC**

DUTY: **Maintain Wood Structures**

CODE	TASK	TAUGHT	COMMENTS
E.01	Service and repair wood structures		
E.02	Identify wood defects		
E.03	Inspect wood structures		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Apply Aircraft Covering and Finishes

CODE	TASK	TAUGHT	COMMENTS
F.01	Select and apply covering		
F.02	Inspect, test, and repair covering		
F.03	Apply trim, letters, and touch-up paint		
F.04	Identify and select aircraft finishing materials		
F.05	Apply paint and dope		
F.06	Inspect finishes and identify defects		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Repair Sheet Metal Structures

CODE	TASK	TAUGHT	COMMENTS
G.01	Install special rivets and fasteners		
G.02	Inspect bonded structures		
G.03	Inspect and repair plastic, honeycomb, and laminated structures		
G.04	Inspect, check, service, and repair windows, doors, and interior furnishings		
G.05	Inspect and repair sheet metal structures		
G.06	Install conventional rivets		
G.07	Hand form, lay out, and bend sheet metal		
G.08	Identify and utilize appropriate metalworking tools and equipment		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Perform Welding

CODE	TASK	TAUGHT	COMMENTS
H.01	Weld magnesium and titanium		
H.02	Solder stainless steel		
H.03	Fabricate tubular structures		
H.04	Solder, braze, gas-weld, and arc-weld steel		
H.05	Weld aluminum and stainless steel		
H.06	Identify and utilize appropriate welding tools and equipment		
H.07	Identify heat-treated items		
H.08	Apply corrosion preventative covering		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Perform Assembly and Rigging

CODE	TASK	TAUGHT	COMMENTS
I.01	Rig rotary-wing aircraft		
I.02	Rig fixed-wing aircraft		
I.03	Check alignment of structures		
I.04	Reassemble aircraft		
I.05	Balance and rig movable structures		
I.06	Jack aircraft		
I.07	Identify and utilize appropriate rigging tools and equipment		
I.08	Identify and select aircraft hardware and materials		
I.09	Inspect and check welds		
I.10	Perform prescribed inspections on aircraft		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Maintain Aircraft Landing Gear Systems

CODE	TASK	TAUGHT	COMMENTS
J.01	Inspect and repair retractable landing gear systems and components		
J.02	Inspect and repair landing gear struts		
J.03	Inspect and repair brakes, wheels, tires, and steering		
J.04	Inspect and repair ski, float, and hull installations		
J.05	Inspect and repair helicopter skids		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Maintain Cabin Atmosphere Control Systems

CODE	TASK	TAUGHT	COMMENTS
L.01	Repair heating, cooling, air conditioning, pressurization, and oxygen system components		
L.02	Inspect, service, and repair heating, air conditioning, and pressurization systems		
L.03	Inspect, check, troubleshoot, service, and repair oxygen systems		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Maintain Aircraft and Engine Instruments and Avionics Systems

CODE	TASK	TAUGHT	COMMENTS
M.01	Install instruments		
M.02	Inspect and repair heading, speed, altitude, attitude, and position systems		
M.03	Inspect, check, and service auto-pilot and approach control systems		
M.04	Inspect and service electronic communications and navigation systems		
M.05	Inspect and repair antenna and electronic equipment installations		
M.06	Identify and utilize special electronic tools and equipment		
M.07	Troubleshoot, service, and repair fluid rate-of-flow indicating systems		
M.08	Inspect, check, service, and repair engine pressure, temperature, and RPM indicating systems		

OCCUPATION: **AIRCRAFT MECHANIC**

DUTY: **Inspect and Repair Aircraft Electrical Systems**

CODE	TASK	TAUGHT	COMMENTS
N.01	Repair aircraft electrical system components		
N.02	Install and service electric indicators, protective devices, wiring, and controls		
N.03	Inspect and repair AC and DC current electrical systems		
N.04	Identify and utilize appropriate electrical tools and equipment		
N.05	Inspect, check, and service speed and takeoff warning systems, electrical brake controls, and anti-skid systems		
N.06	Inspect, check, troubleshoot, service, and repair landing gear position indicating and warning systems		
N.07	Repair engine electrical system components		
N.08	Install engine electrical wiring, controls, switches, indicators, and protective devices		
N.09	Determine relationship of voltage, current, and resistance in electrical circuits		
N.10	Compute and measure capacitance and inductance		
N.11	Measure voltage, current, resistance, and continuity		
N.12	Read and interpret electrical circuit diagrams		
N.13	Inspect batteries		
N.14	Service batteries		

OCCUPATION: **AIRCRAFT MECHANIC**

DUTY: **Inspect Aircraft and Engine Fire Protection Systems**

CODE	TASK	TAUGHT	COMMENTS
O.01	Inspect, check, and service smoke and carbon monoxide detection systems		
O.02	Inspect, check, service, troubleshoot, and repair aircraft fire detection and extinguishing systems		
O.03	Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems		
O.04	Perform special safety wiring		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Maintain Aircraft Fuel Systems

CODE	TASK	TAUGHT	COMMENTS
P.01	Check fuel dump systems		
P.02	Inspect fuel management transfer and defueling system		
P.03	Inspect, check, and repair pressure fuel systems		
P.04	Repair aircraft fuel system components		
P.05	Inspect and repair fluid quantity indicating system		
P.06	Troubleshoot, service, and repair fluid pressure and temperature warning systems		
P.07	Inspect, check, service, troubleshoot, and repair aircraft fuel systems		
P.08	Inspect, check, and service water injection systems		
P.09	Overhaul carburetor		
P.10	Repair engine fuel metering system components		
P.11	Inspect, troubleshoot, and repair reciprocating and turbine engine fuel metering systems		
P.12	Repair engine fuel system components		
P.13	Inspect, check, service, troubleshoot, and repair engine fuel systems		
P.14	Install rigid and flexible fluid lines and fittings		
P.15	Identify and utilize special fluid line tools		
P.16	Perform tube flaring		
P.17	Perform tube bending		
P.18	Fabricate flareless fitting tube assemblies		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Maintain Aircraft Fuel Systems (Continued)

CODE	TASK	TAUGHT	COMMENTS
P.19	Fabricate a double flare		
P.20	Fabricate a flexible hose assembly		
P.21	Defuel aircraft		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Maintain Lubrication Systems

CODE	TASK	TAUGHT	COMMENTS
Q.01	Identify and select lubricants		
Q.02	Repair engine lubrication system components		
Q.03	Inspect, check, service, troubleshoot, and repair engine lubrication systems		
Q.04	Inspect oil temperature regulating system		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Maintain Ignition Systems

CODE	TASK	TAUGHT	COMMENTS
R.01	Overhaul magneto and ignition harness		
R.02	Repair engine ignition components		
R.03	Inspect, check, service, troubleshoot, and repair reciprocating and turbine engine ignition systems		
R.04	Service spark plugs		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Maintain Induction Systems

CODE	TASK	TAUGHT	COMMENTS
S.01	Inspect, check, troubleshoot, service, and repair turbo-charger system		
S.02	Inspect, check, service, and repair heat exchangers (inner-coolers) and superchargers		
S.03	Inspect, check, service, and repair carburetor air intake and induction systems		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Maintain Engine Cooling Systems

CODE	TASK	TAUGHT	COMMENTS
T.01	Repair engine cooling system components		
T.02	Inspect, check, service, troubleshoot, and repair cooling systems		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Maintain Engine Exhaust Systems

CODE	TASK	TAUGHT	COMMENTS
U.01	Repair engine exhaust system components		
U.02	Inspect, check, troubleshoot, service, and repair engine exhaust systems		

OCCUPATION: **AIRCRAFT MECHANIC**

DUTY: **Maintain Aircraft Propellers/Rotors**

CODE	TASK	TAUGHT	COMMENTS
V.01	Inspect, check, service, and repair propeller synchronizing and ice control systems		
V.02	Identify and select propeller lubricants		
V.03	Track and balance propellers		
V.04	Repair propeller control system components		
V.05	Inspect and repair fixed-pitch, constant speed, and feathering propellers and systems		
V.06	Troubleshoot, remove, and install propellers		
V.07	Track and balance main rotors		
V.08	Track and adjust tail rotors		
V.09	Inspect, service, troubleshoot, and repair rotor systems		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Inspect and Repair Reciprocating Engines

CODE	TASK	TAUGHT	COMMENTS
W.01	Top overhaul engine		
W.02	Major overhaul engine		
W.03	Remove and install engine		
W.04	Perform engine inspection		

OCCUPATION: AIRCRAFT MECHANIC

DUTY: Inspect and Repair Turbo-Jet and Turbo-Prop Engines

CODE	TASK	TAUGHT	COMMENTS
X.01	Overhaul turbine engine		
X.02	Inspect and repair turbine engine installation		
X.03	Inspect, troubleshoot, and adjust turbine engine components		

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES

OCCUPATION 4: AIRCRAFT SHEET METAL WORKER

DUTIES:
- C. Perform Cleaning and Corrosion Control Operations
- D. Use Maintenance Publications and Maintain Forms and Records
- E. Maintain Wood Structures
- F. Apply Aircraft Covering and Finishes
- G. Repair Sheet Metal Structures
- H. Perform Welding
- I. Perform Assembly and Rigging
- J. Maintain Aircraft Landing Gear Systems
- P. Maintain Aircraft Fuel Systems
- S. Maintain Induction Systems
- T. Maintain Engine Cooling Systems
- U. Maintain Engine Exhaust Systems

OKLAHOMA OCCUPATIONAL TESTING CENTER

OCCUPATION: AIRCRAFT SHEET METAL WORKER

DUTY: Perform Cleaning and Corrosion Control Operations

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: AIRCRAFT SHEET METAL WORKER

DUTY: Use Maintenance Publications and Maintain Forms and Records

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: **AIRCRAFT SHEET METAL WORKER**

DUTY: **Maintain Wood Structures**

CODE	TASK	TAUGHT	COMMENTS
E.01	Service and repair wood structures		
E.02	Identify wood defects		
E.03	Inspect wood structures		

OCCUPATION: AIRCRAFT SHEET METAL WORKER

DUTY: Apply Aircraft Covering and Finishes

CODE	TASK	TAUGHT	COMMENTS
F.01	Select and apply covering		
F.02	Inspect, test, and repair covering		
F.03	Apply trim, letters, and touch-up paint		
F.04	Identify and select aircraft finishing materials		
F.05	Apply paint and dope		
F.06	Inspect finishes and identify defects		

OCCUPATION: **AIRCRAFT SHEET METAL WORKER**

DUTY: **Repair Sheet Metal Structures**

CODE	TASK	TAUGHT	COMMENTS
G.01	Install special rivets and fasteners		
G.02	Inspect bonded structures		
G.03	Inspect and repair plastic, honeycomb, and laminated structures		
G.04	Inspect, check, service, and repair windows, doors, and interior furnishings		
G.05	Inspect and repair sheet metal structures		
G.06	Install conventional rivets		
G.07	Hand form, lay out, and bend sheet metal		
G.08	Identify and utilize appropriate metalworking tools and equipment		

OCCUPATION: AIRCRAFT SHEET METAL WORKER

DUTY: Perform Welding

CODE	TASK	TAUGHT	COMMENTS
H.01	Weld magnesium and titanium		
H.02	Solder stainless steel		
H.03	Fabricate tubular structures		
H.04	Solder, braze, gas-weld, and arc-weld steel		
H.05	Weld aluminum and stainless steel		
H.06	Identify and utilize appropriate welding tools and equipment		
H.07	Identify heat-treated items		
H.08	Apply corrosion preventative covering		

OCCUPATION: AIRCRAFT SHEET METAL WORKER

DUTY: Perform Assembly and Rigging

CODE	TASK	TAUGHT	COMMENTS
I.03	Check alignment of structures		
I.08	Identify and select aircraft hardware and materials		

OCCUPATION: AIRCRAFT SHEET METAL WORKER

DUTY: Maintain Aircraft Landing Gear Systems

CODE	TASK	TAUGHT	COMMENTS
J.01	Inspect and repair retractable landing gear systems and components		
J.04	Inspect and repair ski, float, and hull installations		

OCCUPATION: AIRCRAFT SHEET METAL WORKER

DUTY: Maintain Aircraft Fuel Systems

CODE	TASK	TAUGHT	COMMENTS
P.01	Check fuel dump systems		
P.02	Inspect fuel management transfer and defueling system		
P.03	Inspect, check, and repair pressure fuel systems		
P.04	Repair aircraft fuel system components		
P.05	Inspect and repair fluid quantity indicating system		
P.06	Troubleshoot, service, and repair fluid pressure and temperature warning systems		
P.07	Inspect, check, service, troubleshoot, and repair aircraft fuel systems		
P.08	Inspect, check, and service water injection systems		
P.09	Overhaul carburetor		
P.10	Repair engine fuel metering system components		
P.11	Inspect, troubleshoot, and repair reciprocating and turbine engine fuel metering systems		
P.12	Repair engine fuel system components		
P.13	Inspect, check, service, troubleshoot, and repair engine fuel systems		
P.14	Install rigid and flexible fluid lines and fittings		
P.15	Identify and utilize special fluid line tools		
P.16	Perform tube flaring		
P.17	Perform tube bending		
P.18	Fabricate flareless fitting tube assemblies		

OCCUPATION: AIRCRAFT SHEET METAL WORKER

DUTY: Maintain Aircraft Fuel Systems (Continued)

CODE	TASK	TAUGHT	COMMENTS
P.19	Fabricate a double flare		
P.20	Fabricate a flexible hose assembly		
P.21	Defuel aircraft		

OCCUPATION: AIRCRAFT SHEET METAL WORKER

DUTY: Maintain Induction Systems

CODE	TASK	TAUGHT	COMMENTS
S.01	Inspect, check, troubleshoot, service, and repair turbo-charger system		
S.02	Inspect, check, service, and repair heat exchangers (inner-coolers) and superchargers		
S.03	Inspect, check, service, and repair carburetor air intake and induction systems		

OCCUPATION: AIRCRAFT SHEET METAL WORKER

DUTY: Maintain Engine Cooling Systems

CODE	TASK	TAUGHT	COMMENTS
T.01	Repair engine cooling system components		
T.02	Inspect, check, service, troubleshoot, and repair cooling systems		

OCCUPATION: AIRCRAFT SHEET METAL WORKER

DUTY: Maintain Engine Exhaust Systems

CODE	TASK	TAUGHT	COMMENTS
U.01	Repair engine exhaust system components		
U.02	Inspect, check, troubleshoot, service, and repair engine exhaust systems		

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES

OCCUPATION 5: AIRCRAFT ELECTRICIAN

DUTIES:

- C. Perform Cleaning and Corrosion Control Operations
- D. Use Maintenance Publications and Maintain Forms and Records
- I. Perform Assembly and Rigging
- J. Maintain Aircraft Landing Gear Systems
- K. Maintain Hydraulic and Pneumatic Power Systems
- L. Maintain Cabin Atmosphere Control Systems
- M. Maintain Aircraft and Engine Instruments and Avionics Systems
- N. Inspect and Repair Aircraft Electrical Systems
- O. Inspect Aircraft and Engine Fire Protection Systems
- P. Maintain Aircraft Fuel Systems
- R. Maintain Ignition Systems
- S. Maintain Induction Systems
- T. Maintain Engine Cooling Systems
- U. Maintain Engine Exhaust Systems
- V. Maintain Aircraft Propellers/Rotors
- X. Inspect and Repair Turbo-Jet and Turbo-Prop Engines

OKLAHOMA OCCUPATIONAL TESTING CENTER

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Perform Cleaning and Corrosion Control Operations

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Use Maintenance Publications and Maintain Forms and Records

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Perform Assembly and Rigging

CODE	TASK	TAUGHT	COMMENTS
I.08	Identify and select aircraft hardware and materials		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Maintain Aircraft Landing Gear Systems

CODE	TASK	TAUGHT	COMMENTS
J.01	Inspect and repair retractable landing gear systems and components		
J.02	Inspect and repair landing gear struts		
J.03	Inspect and repair brakes, wheels, tires, and steering		
J.04	Inspect and repair ski, float, and hull installations		
J.05	Inspect and repair helicopter skids		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Maintain Hydraulic and Pneumatic Power Systems

CODE	TASK	TAUGHT	COMMENTS
K.01	Repair hydraulic and pneumatic power system components		
K.02	Identify and select hydraulic fluids and seals		
K.03	Inspect and repair hydraulic and pneumatic power systems		
K.04	Identify and utilize appropriate hydraulic and pneumatic equipment		
K.05	Inspect, check, troubleshoot, service, and repair ice and rain control systems		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Maintain Cabin Atmosphere Control Systems

CODE	TASK	TAUGHT	COMMENTS
L.01	Repair heating, cooling, air conditioning, pressurization, and oxygen system components		
L.02	Inspect, service, and repair heating, air conditioning, and pressurization systems		
L.03	Inspect, check, troubleshoot, service, and repair oxygen systems		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Maintain Aircraft and Engine Instruments and Avionics Systems

CODE	TASK	TAUGHT	COMMENTS
M.01	Install instruments		
M.02	Inspect and repair heading, speed, altitude, attitude, and position systems		
M.03	Inspect, check, and service auto-pilot and approach control systems		
M.04	Inspect and service electronic communications and navigation systems		
M.05	Inspect and repair antenna and electronic equipment installations		
M.06	Identify and utilize special electronic tools and equipment		
M.07	Troubleshoot, service, and repair fluid rate-of-flow indicating systems		
M.08	Inspect, check, service, and repair engine pressure, temperature, and RPM indicating systems		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Inspect and Repair Aircraft Electrical Systems

CODE	TASK	TAUGHT	COMMENTS
N.01	Repair aircraft electrical system components		
N.02	Install and service electric indicators, protective devices, wiring, and controls		
N.03	Inspect and repair AC and DC current electrical systems		
N.04	Identify and utilize appropriate electrical tools and equipment		
N.05	Inspect, check, and service speed and takeoff warning systems, electrical brake controls, and anti-skid systems		
N.06	Inspect, check, troubleshoot, service, and repair landing gear position indicating and warning systems		
N.07	Repair engine electrical system components		
N.08	Install engine electrical wiring, controls, switches, indicators, and protective devices		
N.09	Determine relationship of voltage, current, and resistance in electrical circuits		
N.10	Compute and measure capacitance and inductance		
N.11	Measure voltage, current, resistance, and continuity		
N.12	Read and interpret electrical circuit diagrams		
N.13	Inspect batteries		
N.14	Service batteries		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Inspect Aircraft and Engine Fire Protection Systems

CODE	TASK	TAUGHT	COMMENTS
O.01	Inspect, check, and service smoke and carbon monoxide detection systems		
O.02	Inspect, check, service, troubleshoot, and repair aircraft fire detection and extinguishing systems		
O.03	Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems		
O.04	Perform special safety wiring		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Maintain Aircraft Fuel Systems

CODE	TASK	TAUGHT	COMMENTS
P.01	Check fuel dump systems		
P.02	Inspect fuel management transfer and defueling system		
P.03	Inspect, check, and repair pressure fuel systems		
P.04	Repair aircraft fuel system components		
P.05	Inspect and repair fluid quantity indicating system		
P.06	Troubleshoot, service, and repair fluid pressure and temperature warning systems		
P.07	Inspect, check, service, troubleshoot, and repair aircraft fuel systems		
P.08	Inspect, check, and service water injection systems		
P.09	Overhaul carburetor		
P.10	Repair engine fuel metering system components		
P.11	Inspect, troubleshoot, and repair reciprocating and turbine engine fuel metering systems		
P.12	Repair engine fuel system components		
P.13	Inspect, check, service, troubleshoot, and repair engine fuel systems		
P.14	Install rigid and flexible fluid lines and fittings		
P.15	Identify and utilize special fluid line tools		
P.16	Perform tube flaring		
P.17	Perform tube bending		
P.18	Fabricate flareless fitting tube assemblies		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Maintain Aircraft Fuel Systems (Continued)

CODE	TASK	TAUGHT	COMMENTS
P.19	Fabricate a double flare		
P.20	Fabricate a flexible hose assembly		
P.21	Defuel aircraft		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Maintain Ignition Systems

CODE	TASK	TAUGHT	COMMENTS
R.01	Overhaul magneto and ignition harness		
R.02	Repair engine ignition components		
R.03	Inspect, check, service, troubleshoot, and repair reciprocating and turbine engine ignition systems		
R.04	Service spark plugs		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Maintain Induction Systems

CODE	TASK	TAUGHT	COMMENTS
S.01	Inspect, check, troubleshoot, service, and repair turbo-charger system		
S.02	Inspect, check, service, and repair heat exchangers (inner-coolers) and superchargers		
S.03	Inspect, check, service, and repair carburetor air intake and induction systems		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Maintain Engine Cooling Systems

CODE	TASK	TAUGHT	COMMENTS
T.01	Repair engine cooling system components		
T.02	Inspect, check, service, troubleshoot, and repair cooling systems		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Maintain Engine Exhaust Systems

CODE	TASK	TAUGHT	COMMENTS
U.01	Repair engine exhaust system components		
U.02	Inspect, check, troubleshoot, service, and repair engine exhaust systems		

OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Maintain Aircraft Propellers/Rotors

CODE	TASK	TAUGHT	COMMENTS
V.01	Inspect, check, service, and repair propeller synchronizing and ice control systems		
V.02	Identify and select propeller lubricants		
V.03	Track and balance propellers		
V.04	Repair propeller control system components		
V.05	Inspect and repair fixed-pitch, constant speed, and feathering propellers and systems		
V.06	Troubleshoot, remove, and install propellers		
V.07	Track and balance main rotors		
V.08	Track and adjust tail rotors		
V.09	Inspect, service, troubleshoot, and repair rotor systems		

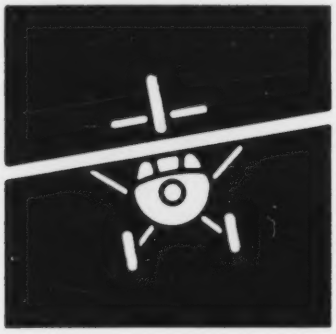
OCCUPATION: AIRCRAFT ELECTRICIAN

DUTY: Inspect and Repair Turbo-Jet and Turbo-Prop Engines

CODE	TASK	TAUGHT	COMMENTS
X.01	Overhaul turbine engine		
X.02	Inspect and repair turbine engine installation		
X.03	Inspect, troubleshoot, and adjust turbine engine components		

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES



OCCUPATION 6: PROPELLER REPAIR PERSON

DUTIES:

- B. Perform Ground Operations and Servicing Duties
- C. Perform Cleaning and Corrosion Control Operations
- D. Use Maintenance Publications and Maintain Forms and Records
- I. Perform Assembly and Rigging
- K. Maintain Hydraulic and Pneumatic Power Systems
- M. Maintain Aircraft and Engine Instruments and Avionics Systems
- N. Inspect and Repair Aircraft Electrical Systems
- Q. Maintain Lubrication Systems
- T. Maintain Engine Cooling Systems
- V. Maintain Aircraft Propellers/Rotors

OKLAHOMA OCCUPATIONAL TESTING CENTER

OCCUPATION: **PROPELLER REPAIR PERSON**

DUTY: **Perform Ground Operations and Servicing Duties**

CODE	TASK	TAUGHT	COMMENTS
B.01	Start aircraft		
B.02	Taxi aircraft		
B.03	Move aircraft		
B.04	Service aircraft		
B.05	Secure aircraft		
B.06	Perform as signal person for taxiing aircraft		
B.07	Perform engine run-up		
B.08	Identify and select fuels		
B.09	Identify and select lubricants		
B.10	Operate radios		

OCCUPATION: PROPELLER REPAIR PERSON

DUTY: Perform Cleaning and Corrosion Control Operations

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: PROPELLER REPAIR PERSON

DUTY: Use Maintenance Publications and Maintain Forms and Records

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: PROPELLER REPAIR PERSON

DUTY: Perform Assembly and Rigging

CODE	TASK	TAUGHT	COMMENTS
I.08	Identify and select aircraft hardware and materials		

OCCUPATION: **PROPELLER REPAIR PERSON**

DUTY: **Maintain Hydraulic and Pneumatic Power Systems**

CODE	TASK	TAUGHT	COMMENTS
K.01	Repair hydraulic and pneumatic power system components		
K.02	Identify and select hydraulic fluids and seals		
K.03	Inspect and repair hydraulic and pneumatic power systems		
K.04	Identify and utilize appropriate hydraulic and pneumatic equipment		
K.05	Inspect, check, troubleshoot, service, and repair ice and rain control systems		

OCCUPATION: PROPELLER REPAIR PERSON

DUTY: Maintain Aircraft and Engine Instruments and Avionics Systems

CODE	TASK	TAUGHT	COMMENTS
M.08	Inspect, check, service, and repair engine pressure, temperature, and RPM indicating systems		

OCCUPATION: PROPELLER REPAIR PERSON

DUTY: Inspect and Repair Aircraft Electrical Systems

CODE	TASK	TAUGHT	COMMENTS
N.01	Repair aircraft electrical system components		
N.02	Install and service electric indicators, protective devices, wiring, and controls		
N.03	Inspect and repair AC and DC current electrical systems		
N.04	Identify and utilize appropriate electrical tools and equipment		
N.05	Inspect, check, and service speed and takeoff warning systems, electrical brake controls, and anti-skid systems		
N.06	Inspect, check, troubleshoot, service, and repair landing gear position indicating and warning systems		
N.07	Repair engine electrical system components		
N.08	Install engine electrical wiring, controls, switches, indicators, and protective devices		
N.09	Determine relationship of voltage, current, and resistance in electrical circuits		
N.10	Compute and measure capacitance and inductance		
N.11	Measure voltage, current, resistance, and continuity		
N.12	Read and interpret electrical circuit diagrams		
N.13	Inspect batteries		
N.14	Service batteries		

OCCUPATION: PROPELLER REPAIR PERSON

DUTY: Maintain Lubrication Systems

CODE	TASK	TAUGHT	COMMENTS
Q.01	Identify and select lubricants		
Q.02	Repair engine lubrication system components		
Q.03	Inspect, check, service, troubleshoot, and repair engine lubrication systems		
Q.04	Inspect oil temperature regulating system		

OCCUPATION: PROPELLER REPAIR PERSON

DUTY: Maintain Engine Cooling Systems

CODE	TASK	TAUGHT	COMMENTS
T.01	Repair engine cooling system components		
T.02	Inspect, check, service, troubleshoot, and repair cooling systems		

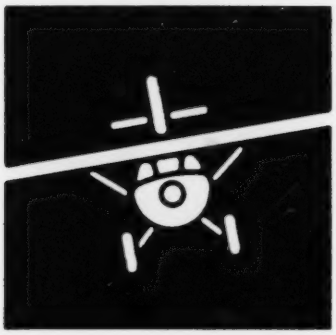
OCCUPATION: PROPELLER REPAIR PERSON

DUTY: Maintain Aircraft Propellers/Rotors

CODE	TASK	TAUGHT	COMMENTS
V.01	Inspect, check, service, and repair propeller synchronizing and ice control systems		
V.02	Identify and select propeller lubricants		
V.03	Track and balance propellers		
V.04	Repair propeller control system components		
V.05	Inspect and repair fixed-pitch, constant speed, and feathering propellers and systems		
V.06	Troubleshoot, remove, and install propellers		
V.07	Track and balance main rotors		
V.08	Track and adjust tail rotors		
V.09	Inspect, service, troubleshoot, and repair rotor systems		

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES



OCCUPATION 7: FUEL SYSTEM MECHANIC

DUTIES:

- B. Perform Ground Operations and Servicing Duties
- C. Perform Cleaning and Corrosion Control Operations
- D. Use Maintenance Publications and Maintain Forms and Records
- I. Perform Assembly and Rigging
- M. Maintain Aircraft and Engine Instruments and Avionics Systems
- N. Inspect and Repair Aircraft Electrical Systems
- P. Maintain Aircraft Fuel Systems
- T. Maintain Engine Cooling Systems
- X. Inspect and Repair Turbo-Jet and Turbo-Prop Engines

OKLAHOMA OCCUPATIONAL TESTING CENTER

OCCUPATION: FUEL SYSTEM MECHANIC

DUTY: Perform Ground Operations and Servicing Duties

CODE	TASK	TAUGHT	COMMENTS
B.01	Start aircraft		
B.02	Taxi aircraft		
B.03	Move aircraft		
B.04	Service aircraft		
B.05	Secure aircraft		
B.06	Perform as signal person for taxiing aircraft		
B.07	Perform engine run-up		
B.08	Identify and select fuels		
B.09	Identify and select lubricants		
B.10	Operate radios		

OCCUPATION: **FUEL SYSTEM MECHANIC**

DUTY: **Perform Cleaning and Corrosion Control Operations**

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: FUEL SYSTEM MECHANIC

DUTY: Use Maintenance Publications and Maintain Forms and Records

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: FUEL SYSTEM MECHANIC

DUTY: Perform Assembly and Rigging

CODE	TASK	TAUGHT	COMMENTS
I.06	Jack aircraft		
I.08	Identify and select aircraft hardware and materials		

OCCUPATION: FUEL SYSTEM MECHANIC

DUTY: Maintain Aircraft and Engine Instruments and Avionics Systems

CODE	TASK	TAUGHT	COMMENTS
M.01	Install instruments		
M.02	Inspect and repair heading, speed, altitude, attitude, and position systems		
M.03	Inspect, check, and service auto-pilot and approach control systems		
M.04	Inspect and service electronic communications and navigation systems		
M.05	Inspect and repair antenna and electronic equipment installations		
M.06	Identify and utilize special electronic tools and equipment		
M.07	Troubleshoot, service, and repair fluid rate-of-flow indicating systems		
M.08	Inspect, check, service, and repair engine pressure, temperature, and RPM indicating systems		

OCCUPATION: FUEL SYSTEM MECHANIC

DUTY: Inspect and Repair Aircraft Electrical Systems

CODE	TASK	TAUGHT	COMMENTS
N.01	Repair aircraft electrical system components		
N.02	Install and service electric indicators, protective devices, wiring, and controls		
N.03	Inspect and repair AC and DC current electrical systems		
N.04	Identify and utilize appropriate electrical tools and equipment		
N.05	Inspect, check, and service speed and takeoff warning systems, electrical brake controls, and anti-skid systems		
N.06	Inspect, check, troubleshoot, service, and repair landing gear position indicating and warning systems		
N.07	Repair engine electrical system components		
N.08	Install engine electrical wiring, controls, switches, indicators, and protective devices		
N.09	Determine relationship of voltage, current, and resistance in electrical circuits		
N.10	Compute and measure capacitance and inductance		
N.11	Measure voltage, current, resistance, and continuity		
N.12	Read and interpret electrical circuit diagrams		
N.13	Inspect batteries		
N.14	Service batteries		

OCCUPATION: **FUEL SYSTEM MECHANIC**

DUTY: **Maintain Aircraft Fuel Systems**

CODE	TASK	TAUGHT	COMMENTS
P.01	Check fuel dump systems		
P.02	Inspect fuel management transfer and defueling system		
P.03	Inspect, check, and repair pressure fuel systems		
P.04	Repair aircraft fuel system components		
P.05	Inspect and repair fluid quantity indicating system		
P.06	Troubleshoot, service, and repair fluid pressure and temperature warning systems		
P.07	Inspect, check, service, troubleshoot, and repair aircraft fuel systems		
P.08	Inspect, check, and service water injection systems		
P.09	Overhaul carburetor		
P.10	Repair engine fuel metering system components		
P.11	Inspect, troubleshoot, and repair reciprocating and turbine engine fuel metering systems		
P.12	Repair engine fuel system components		
P.13	Inspect, check, service, troubleshoot, and repair engine fuel systems		
P.14	Install rigid and flexible fluid lines and fittings		
P.15	Identify and utilize special fluid line tools		
P.16	Perform tube flaring		
P.17	Perform tube bending		
P.18	Fabricate flareless fitting tube assemblies		

OCCUPATION: FUEL SYSTEM MECHANIC

DUTY: Maintain Aircraft Fuel Systems (Continued)

CODE	TASK	TAUGHT	COMMENTS
P.19	Fabricate a double flare		
P.20	Fabricate a flexible hose assembly		
P.21	Defuel aircraft		

OCCUPATION: FUEL SYSTEM MECHANIC

DUTY: Maintain Engine Cooling Systems

CODE	TASK	TAUGHT	COMMENTS
T.01	Repair engine cooling system components		
T.02	Inspect, check, service, troubleshoot, and repair cooling systems		

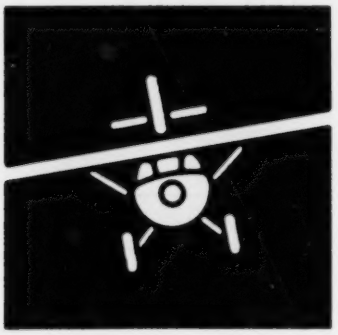
OCCUPATION: FUEL SYSTEM MECHANIC

DUTY: Inspect and Repair Turbo-Jet and Turbo-Prop Engines

CODE	TASK	TAUGHT	COMMENTS
X.01	Overhaul turbine engine		
X.02	Inspect and repair turbine engine installation		
X.03	Inspect, troubleshoot, and adjust turbine engine components		

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES



OCCUPATION 8: AIRCRAFT ENVIRONMENTAL MECHANIC

DUTIES:

- B. Perform Ground Operations and Servicing Duties
- C. Perform Cleaning and Corrosion Control Operations
- D. Use Maintenance Publications and Maintain Forms and Records
- I. Perform Assembly and Rigging
- K. Maintain Hydraulic and Pneumatic Power Systems
- L. Maintain Cabin Atmosphere Control Systems
- M. Maintain Aircraft and Engine Instruments and Avionics Systems
- N. Inspect and Repair Aircraft Electrical Systems
- O. Inspect Aircraft and Engine Fire Protection Systems
- S. Maintain Induction Systems
- U. Maintain Engine Exhaust Systems
- X. Inspect and Repair Turbo-Jet and Turbo-Prop Engines

OKLAHOMA OCCUPATIONAL TESTING CENTER

OCCUPATION: AIRCRAFT ENVIRONMENTAL MECHANIC

DUTY: Perform Ground Operations and Servicing Duties

CODE	TASK	TAUGHT	COMMENTS
B.01	Start aircraft		
B.02	Taxi aircraft		
B.03	Move aircraft		
B.04	Service aircraft		
B.05	Secure aircraft		
B.06	Perform as signal person for taxiing aircraft		
B.07	Perform engine run-up		
B.08	Identify and select fuels		
B.09	Identify and select lubricants		
B.10	Operate radios		

OCCUPATION: AIRCRAFT ENVIRONMENTAL MECHANIC

DUTY: Perform Cleaning and Corrosion Control Operations

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: AIRCRAFT ENVIRONMENTAL MECHANIC

DUTY: Use Maintenance Publications and Maintain Forms and Records

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: AIRCRAFT ENVIRONMENTAL MECHANIC

DUTY: Perform Assembly and Rigging

CODE	TASK	TAUGHT	COMMENTS
I.08	Identify and select aircraft hardware and materials		

OCCUPATION: AIRCRAFT ENVIRONMENTAL MECHANIC

DUTY: Maintain Hydraulic and Pneumatic Power Systems

CODE	TASK	TAUGHT	COMMENTS
K.01	Repair hydraulic and pneumatic power system components		
K.02	Identify and select hydraulic fluids and seals		
K.03	Inspect and repair hydraulic and pneumatic power systems		
K.04	Identify and utilize appropriate hydraulic and pneumatic equipment		
K.05	Inspect, check, troubleshoot, service, and repair ice and rain control systems		

OCCUPATION: AIRCRAFT ENVIRONMENTAL MECHANIC

DUTY: Maintain Cabin Atmosphere Control Systems

CODE	TASK	TAUGHT	COMMENTS
L.01	Repair heating, cooling, air conditioning, pressurization, and oxygen system components		
L.02	Inspect, service, and repair heating, air conditioning, and pressurization systems		
L.03	Inspect, check, troubleshoot, service, and repair oxygen systems		

OCCUPATION: AIRCRAFT ENVIRONMENTAL MECHANIC

DUTY: Maintain Aircraft and Engine Instruments and Avionics Systems

CODE	TASK	TAUGHT	COMMENTS
M.01	Install instruments		
M.02	Inspect and repair heading, speed, altitude, attitude, and position systems		
M.03	Inspect, check, and service auto-pilot and approach control systems		
M.04	Inspect and service electronic communications and navigation systems		
M.05	Inspect and repair antenna and electronic equipment installations		
M.06	Identify and utilize special electronic tools and equipment		
M.07	Troubleshoot, service, and repair fluid rate-of-flow indicating systems		
M.08	Inspect, check, service, and repair engine pressure, temperature, and RPM indicating systems		

OCCUPATION: AIRCRAFT ENVIRONMENTAL MECHANIC

DUTY: Inspect and Repair Aircraft Electrical Systems

CODE	TASK	TAUGHT	COMMENTS
N.01	Repair aircraft electrical system components		
N.02	Install and service electric indicators, protective devices, wiring, and controls		
N.03	Inspect and repair AC and DC current electrical systems		
N.04	Identify and utilize appropriate electrical tools and equipment		
N.05	Inspect, check, and service speed and takeoff warning systems, electrical brake controls, and anti-skid systems		
N.06	Inspect, check, troubleshoot, service, and repair landing gear position indicating and warning systems		
N.07	Repair engine electrical system components		
N.08	Install engine electrical wiring, controls, switches, indicators, and protective devices		
N.09	Determine relationship of voltage, current, and resistance in electrical circuits		
N.10	Compute and measure capacitance and inductance		
N.11	Measure voltage, current, resistance, and continuity		
N.12	Read and interpret electrical circuit diagrams		
N.13	Inspect batteries		
N.14	Service batteries		

OCCUPATION: AIRCRAFT ENVIRONMENTAL MECHANIC

DUTY: Inspect Aircraft and Engine Fire Protection Systems

CODE	TASK	TAUGHT	COMMENTS
0.01	Inspect, check, and service smoke and carbon monoxide detection systems		
0.02	Inspect, check, service, troubleshoot, and repair aircraft fire detection and extinguishing systems		
0.03	Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems		
0.04	Perform special safety wiring		

OCCUPATION: AIRCRAFT ENVIRONMENTAL MECHANIC

DUTY: Maintain Induction Systems

CODE	TASK	TAUGHT	COMMENTS
S.01	Inspect, check, troubleshoot, service, and repair turbo-charger system		
S.02	Inspect, check, service, and repair heat exchangers (inner-coolers) and superchargers		
S.03	Inspect, check, service, and repair carburetor air intake and induction systems		

OCCUPATION: AIRCRAFT ENVIRONMENTAL MECHANIC

DUTY: Maintain Engine Exhaust Systems

CODE	TASK	TAUGHT	COMMENTS
U.01	Repair engine exhaust system components		
U.02	Inspect, check, troubleshoot, service, and repair engine exhaust systems		

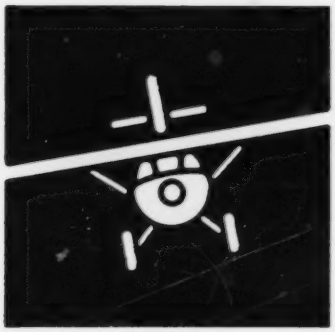
OCCUPATION: AIRCRAFT ENVIRONMENTAL MECHANIC

DUTY: Inspect and Repair Turbo-Jet and Turbo-Prop Engines

CODE	TASK	TAUGHT	COMMENTS
X.01	Overhaul turbine engine		
X.02	Inspect and repair turbine engine installation		
X.03	Inspect, troubleshoot, and adjust turbine engine components		

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES



OCCUPATION 9: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTIES:

- B. Perform Ground Operations and Servicing Duties
- C. Perform Cleaning and Corrosion Control Operations
- D. Use Maintenance Publications and Maintain Forms and Records
- I. Perform Assembly and Rigging
- J. Maintain Aircraft Landing Gear Systems
- K. Maintain Hydraulic and Pneumatic Power Systems
- L. Maintain Cabin Atmosphere Control Systems
- M. Maintain Aircraft and Engine Instruments and Avionics Systems
- N. Inspect and Repair Aircraft Electrical Systems
- O. Inspect Aircraft and Engine Fire Protection Systems
- S. Maintain Induction Systems
- T. Maintain Engine Cooling Systems
- V. Maintain Aircraft Propellers/Rotors
- X. Inspect and Repair Turbo-Jet and Turbo-Prop Engines

OKLAHOMA OCCUPATIONAL TESTING CENTER

OCCUPATION: **AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC**

DUTY: **Perform Ground Operations and Servicing Duties**

CODE	TASK	TAUGHT	COMMENTS
B.01	Start aircraft		
B.02	Taxi aircraft		
B.03	Move aircraft		
B.04	Service aircraft		
B.05	Secure aircraft		
B.06	Perform as signal person for taxiing aircraft		
B.07	Perform engine run-up		
B.08	Identify and select fuels		
B.09	Identify and select lubricants		
B.10	Operate radios		

OCCUPATION: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTY: Perform Cleaning and Corrosion Control Operations

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTY: Use Maintenance Publications and Maintain Forms and Records

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTY: Perform Assembly and Rigging

CODE	TASK	TAUGHT	COMMENTS
I.08	Identify and select aircraft hardware and materials		

OCCUPATION: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTY: Maintain Aircraft Landing Gear Systems

CODE	TASK	TAUGHT	COMMENTS
J.01	Inspect and repair retractable landing gear systems and components		
J.02	Inspect and repair landing gear struts		
J.03	Inspect and repair brakes, wheels, tires, and steering		
J.04	Inspect and repair ski, float, and hull installations		
J.05	Inspect and repair helicopter skids		

OCCUPATION: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTY: Maintain Hydraulic and Pneumatic Power Systems

CODE	TASK	TAUGHT	COMMENTS
K.01	Repair hydraulic and pneumatic power system components		
K.02	Identify and select hydraulic fluids and seals		
K.03	Inspect and repair hydraulic and pneumatic power systems		
K.04	Identify and utilize appropriate hydraulic and pneumatic equipment		
K.05	Inspect, check, troubleshoot, service, and repair ice and rain control systems		

OCCUPATION: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTY: Maintain Cabin Atmosphere Control Systems

CODE	TASK	TAUGHT	COMMENTS
L.01	Repair heating, cooling, air conditioning, pressurization, and oxygen system components		
L.02	Inspect, service, and repair heating, air conditioning, and pressurization systems		
L.03	Inspect, check, troubleshoot, service, and repair oxygen systems		

OCCUPATION: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTY: Maintain Aircraft and Engine Instruments and Avionics Systems

CODE	TASK	TAUGHT	COMMENTS
M.01	Install instruments		
M.02	Inspect and repair heading, speed, altitude, attitude, and position systems		
M.03	Inspect, check, and service auto-pilot and approach control systems		
M.04	Inspect and service electronic communications and navigation systems		
M.05	Inspect and repair antenna and electronic equipment installations		
M.06	Identify and utilize special electronic tools and equipment		
M.07	Troubleshoot, service, and repair fluid rate-of-flow indicating systems		
M.08	Inspect, check, service, and repair engine pressure, temperature, and RPM indicating systems		

OCCUPATION: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTY: Inspect and Repair Aircraft Electrical Systems

CODE	TASK	TAUGHT	COMMENTS
N.01	Repair aircraft electrical system components		
N.02	Install and service electric indicators, protective devices, wiring, and controls		
N.03	Inspect and repair AC and DC current electrical systems		
N.04	Identify and utilize appropriate electrical tools and equipment		
N.05	Inspect, check, and service speed and takeoff warning systems, electrical brake controls, and anti-skid systems		
N.06	Inspect, check, troubleshoot, service, and repair landing gear position indicating and warning systems		
N.07	Repair engine electrical system components		
N.08	Install engine electrical wiring, controls, switches, indicators, and protective devices		
N.09	Determine relationship of voltage, current, and resistance in electrical circuits		
N.10	Compute and measure capacitance and inductance		
N.11	Measure voltage, current, resistance, and continuity		
N.12	Read and interpret electrical circuit diagrams		
N.13	Inspect batteries		
N.14	Service batteries		

OCCUPATION: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTY: Inspect Aircraft and Engine Fire Protection Systems

CODE	TASK	TAUGHT	COMMENTS
0.01	Inspect, check, and service smoke and carbon monoxide detection systems		
0.02	Inspect, check, service, troubleshoot, and repair aircraft fire detection and extinguishing systems		
0.03	Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems		
0.04	Perform special safety wiring		

OCCUPATION: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTY: Maintain Induction Systems

CODE	TASK	TAUGHT	COMMENTS
S.01	Inspect, check, troubleshoot, service, and repair turbo-charger system		
S.02	Inspect, check, service, and repair heat exchangers (inner-coolers) and superchargers		
S.03	Inspect, check, service, and repair carburetor air intake and induction systems		

OCCUPATION: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTY: Maintain Engine Cooling Systems

CODE	TASK	TAUGHT	COMMENTS
T.01	Repair engine cooling system components		
T.02	Inspect, check, service, troubleshoot, and repair cooling systems		

OCCUPATION: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTY: Maintain Aircraft Propellers/Rotors

CODE	TASK	TAUGHT	COMMENTS
V.01	Inspect, check, service, and repair propeller synchronizing and ice control systems		
V.02	Identify and select propeller lubricants		
V.03	Track and balance propellers		
V.04	Repair propeller control system components		
V.05	Inspect and repair fixed-pitch, constant speed, and feathering propellers and systems		
V.06	Troubleshoot, remove, and install propellers		
V.07	Track and balance main rotors		
V.08	Track and adjust tail rotors		
V.09	Inspect, service, troubleshoot, and repair rotor systems		

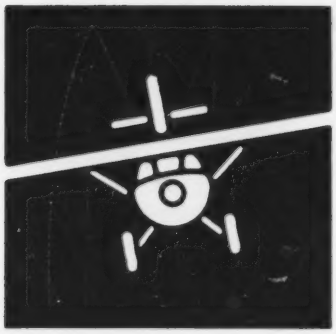
OCCUPATION: AIRCRAFT HYDRAULICS/PNEUMATICS MECHANIC

DUTY: Inspect and Repair Turbo-Jet and Turbo-Prop Engines

CODE	TASK	TAUGHT	COMMENTS
X.01	Overhaul turbine engine		
X.02	Inspect and repair turbine engine installation		
X.03	Inspect, troubleshoot, and adjust turbine engine components		

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES



OCCUPATION 10: NON-DESTRUCTIVE TESTER

DUTIES:
- C. Perform Cleaning and Corrosion Control Operations
- D. Use Maintenance Publications and Maintain Forms and Records
- I. Perform Assembly and Rigging
- J. Maintain Aircraft Landing Gear Systems
- K. Maintain Hydraulic and Pneumatic Power Systems
- L. Maintain Cabin Atmosphere Control Systems
- T. Maintain Engine Cooling Systems
- W. Inspect and Repair Reciprocating Engines
- X. Inspect and Repair Turbo-Jet and Turbo-Prop Engines

OKLAHOMA OCCUPATIONAL TESTING CENTER

OCCUPATION: NON-DESTRUCTIVE TESTER

DUTY: Perform Cleaning and Corrosion Control Operations

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: NON-DESTRUCTIVE TESTER

DUTY: Use Maintenance Publications and Maintain Forms and Records

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: NON-DESTRUCTIVE TESTER

DUTY: Perform Assembly and Rigging

CODE	TASK	TAUGHT	COMMENTS
I.08	Identify and select aircraft hardware and materials		

OCCUPATION: NON-DESTRUCTIVE TESTER

DUTY: Maintain Aircraft Landing Gear Systems

CODE	TASK	TAUGHT	COMMENTS
J.01	Inspect and repair retractable landing gear systems and components		
J.02	Inspect and repair landing gear struts		
J.03	Inspect and repair brakes, wheels, tires, and steering		
J.04	Inspect and repair ski, float, and hull installations		
J.05	Inspect and repair helicopter skids		

OCCUPATION: NON-DESTRUCTIVE TESTER

DUTY: Maintain Hydraulic and Pneumatic Power Systems

CODE	TASK	TAUGHT	COMMENTS
K.01	Repair hydraulic and pneumatic power system components		
K.02	Identify and select hydraulic fluids and seals		
K.03	Inspect and repair hydraulic and pneumatic power systems		
K.04	Identify and utilize appropriate hydraulic and pneumatic equipment		
K.05	Inspect, check, troubleshoot, service, and repair ice and rain control systems		

OCCUPATION: NON-DESTRUCTIVE TESTER

DUTY: Maintain Cabin Atmosphere Control Systems

CODE	TASK	TAUGHT	COMMENTS
L.01	Repair heating, cooling, air conditioning, pressurization, and oxygen system components		
L.02	Inspect, service, and repair heating, air conditioning, and pressurization systems		
L.03	Inspect, check, troubleshoot, service, and repair oxygen systems		

OCCUPATION: NON-DESTRUCTIVE TESTER

DUTY: Maintain Engine Cooling Systems

CODE	TASK	TAUGHT	COMMENTS
T.01	Repair engine cooling system components		
T.02	Inspect, check, service, troubleshoot, and repair cooling systems		

OCCUPATION: NON-DESTRUCTIVE TESTER

DUTY: Inspect and Repair Reciprocating Engines

CODE	TASK	TAUGHT	COMMENTS
W.01	Top overhaul engine		
W.02	Major overhaul engine		
W.03	Remove and install engine		
W.04	Perform engine inspection		

OCCUPATION: NON-DESTRUCTIVE TESTER

DUTY: Inspect and Repair Turbo-Jet and Turbo-Prop Engines

CODE	TASK	TAUGHT	COMMENTS
X.01	Overhaul turbine engine		
X.02	Inspect and repair turbine engine installation		
X.03	Inspect, troubleshoot, and adjust turbine engine components		

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES

OCCUPATION 11: AVIONICS MECHANIC

DUTIES:
- B. Perform Ground Operations and Servicing Duties
- C. Perform Cleaning and Corrosion Control Operations
- D. Use Maintenance Publications and Maintain Forms and Records
- G. Repair Sheet Metal Structures
- I. Perform Assembly and Rigging
- M. Maintain Aircraft and Engine Instruments and Avionics Systems
- N. Inspect and Repair Aircraft Electrical Systems

OKLAHOMA OCCUPATIONAL TESTING CENTER

OCCUPATION: AVIONICS MECHANIC

DUTY: Perform Ground Operations and Servicing Duties

CODE	TASK	TAUGHT	COMMENTS
B.01	Start aircraft		
B.02	Taxi aircraft		
B.03	Move aircraft		
B.04	Service aircraft		
B.05	Secure aircraft		
B.06	Perform as signal person for taxiing aircraft		
B.07	Perform engine run-up		
B.08	Identify and select fuels		
B.09	Identify and select lubricants		
B.10	Operate radios		

OCCUPATION: AVIONICS MECHANIC

DUTY: Perform Cleaning and Corrosion Control Operations

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: AVIONICS MECHANIC

DUTY: Use Maintenance Publications and Maintain Forms and Records

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: AVIONICS MECHANIC

DUTY: Repair Sheet Metal Structures

CODE	TASK	TAUGHT	COMMENTS
G.01	Install special rivets and fasteners		
G.06	Install conventional rivets		
G.07	Hand form, lay out, and bend sheet metal		
G.08	Identify and utilize appropriate metalworking tools and equipment		

OCCUPATION: AVIONICS MECHANIC

DUTY: Perform Assembly and Rigging

CODE	TASK	TAUGHT	COMMENTS
I.08	Identify and select aircraft hardware and materials		

OCCUPATION: AVIONICS MECHANIC

DUTY: Maintain Aircraft and Engine Instruments and Avionics Systems

CODE	TASK	TAUGHT	COMMENTS
M.01	Install instruments		
M.02	Inspect and repair heading, speed, altitude, attitude, and position systems		
M.03	Inspect, check, and service auto-pilot and approach control systems		
M.04	Inspect and service electronic communications and navigation systems		
M.05	Inspect and repair antenna and electronic equipment installations		
M.06	Identify and utilize special electronic tools and equipment		
M.07	Troubleshoot, service, and repair fluid rate-of-flow indicating systems		
M.08	Inspect, check, service, and repair engine pressure, temperature, and RPM indicating systems		

OCCUPATION: AVIONICS MECHANIC

DUTY: Inspect and Repair Aircraft Electrical Systems

CODE	TASK	TAUGHT	COMMENTS
N.01	Repair aircraft electrical system components		
N.02	Install and service electric indicators, protective devices, wiring, and controls		
N.03	Inspect and repair AC and DC current electrical systems		
N.04	Identify and utilize appropriate electrical tools and equipment		
N.05	Inspect, check, and service speed and takeoff warning systems, electrical brake controls, and anti-skid systems		
N.06	Inspect, check, troubleshoot, service, and repair landing gear position indicating and warning systems		
N.07	Repair engine electrical system components		
N.08	Install engine electrical wiring, controls, switches, indicators, and protective devices		
N.09	Determine relationship of voltage, current, and resistance in electrical circuits		
N.10	Compute and measure capacitance and inductance		
N.11	Measure voltage, current, resistance, and continuity		
N.12	Read and interpret electrical circuit diagrams		
N.13	Inspect batteries		
N.14	Service batteries		

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES

OCCUPATION 12: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTIES:
- B. Perform Ground Operations and Servicing Duties
- C. Perform Cleaning and Corrosion Control Operations
- D. Use Maintenance Publications and Maintain Forms and Records
- I. Perform Assembly and Rigging
- L. Maintain Cabin Atmosphere Control Systems
- M. Maintain Aircraft and Engine Instruments and Avionics Systems
- N. Inspect and Repair Aircraft Electrical Systems
- O. Inspect Aircraft and Engine Fire Protection Systems
- P. Maintain Aircraft Fuel Systems
- Q. Maintain Lubrication Systems
- S. Maintain Induction Systems
- T. Maintain Engine Cooling Systems
- V. Maintain Aircraft Propellers/Rotors
- X. Inspect and Repair Turbo-Jet and Turbo-Prop Engines

OKLAHOMA OCCUPATIONAL TESTING CENTER

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Perform Ground Operations and Servicing Duties

CODE	TASK	TAUGHT	COMMENTS
B.01	Start aircraft		
B.02	Taxi aircraft		
B.03	Move aircraft		
B.04	Service aircraft		
B.05	Secure aircraft		
B.06	Perform as signal person for taxiing aircraft		
B.07	Perform engine run-up		
B.08	Identify and select fuels		
B.09	Identify and select lubricants		
B.10	Operate radios		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Perform Cleaning and Corrosion Control Operations

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Use Maintenance Publications and Maintain Forms and Records

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Perform Assembly and Rigging

CODE	TASK	TAUGHT	COMMENTS
I.08	Identify and select aircraft hardware and materials		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Maintain Cabin Atmosphere Control Systems

CODE	TASK	TAUGHT	COMMENTS
L.01	Repair heating, cooling, air conditioning, pressurization, and oxygen system components		
L.02	Inspect, service, and repair heating, air conditioning, and pressurization systems		
L.03	Inspect, check, troubleshoot, service, and repair oxygen systems		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Maintain Aircraft and Engine Instruments and Avionics Systems

CODE	TASK	TAUGHT	COMMENTS
M.01	Install instruments		
M.02	Inspect and repair heading, speed, altitude, attitude, and position systems		
M.03	Inspect, check, and service auto-pilot and approach control systems		
M.04	Inspect and service electronic communications and navigation systems		
M.05	Inspect and repair antenna and electronic equipment installations		
M.06	Identify and utilize special electronic tools and equipment		
M.07	Troubleshoot, service, and repair fluid rate-of-flow indicating systems		
M.08	Inspect, check, service, and repair engine pressure, temperature, and RPM indicating systems		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Inspect and Repair Aircraft Electrical Systems

CODE	TASK	TAUGHT	COMMENTS
N.01	Repair aircraft electrical system components		
N.02	Install and service electric indicators, protective devices, wiring, and controls		
N.03	Inspect and repair AC and DC current electrical systems		
N.04	Identify and utilize appropriate electrical tools and equipment		
N.05	Inspect, check, and service speed and takeoff warning systems, electrical brake controls, and anti-skid systems		
N.06	Inspect, check, troubleshoot, service, and repair landing gear position indicating and warning systems		
N.07	Repair engine electrical system components		
N.08	Install engine electrical wiring, controls, switches, indicators, and protective devices		
N.09	Determine relationship of voltage, current, and resistance in electrical circuits		
N.10	Compute and measure capacitance and inductance		
N.11	Measure voltage, current, resistance, and continuity		
N.12	Read and interpret electrical circuit diagrams		
N.13	Inspect batteries		
N.14	Service batteries		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Inspect Aircraft and Engine Fire Protection Systems

CODE	TASK	TAUGHT	COMMENTS
O.01	Inspect, check, and service smoke and carbon monoxide detection systems		
O.02	Inspect, check, service, troubleshoot, and repair aircraft fire detection and extinguishing systems		
O.03	Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems		
O.04	Perform special safety wiring		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Maintain Aircraft Fuel Systems

CODE	TASK	TAUGHT	COMMENTS
P.01	Check fuel dump systems		
P.02	Inspect fuel management transfer and defueling system		
P.03	Inspect, check, and repair pressure fuel systems		
P.04	Repair aircraft fuel system components		
P.05	Inspect and repair fluid quantity indicating system		
P.06	Troubleshoot, service, and repair fluid pressure and temperature warning systems		
P.07	Inspect, check, service, troubleshoot, and repair aircraft fuel systems		
P.08	Inspect, check, and service water injection systems		
P.09	Overhaul carburetor		
P.10	Repair engine fuel metering system components		
P.11	Inspect, troubleshoot, and repair reciprocating and turbine engine fuel metering systems		
P.12	Repair engine fuel system components		
P.13	Inspect, check, service, troubleshoot, and repair engine fuel systems		
P.14	Install rigid and flexible fluid lines and fittings		
P.15	Identify and utilize special fluid line tools		
P.16	Perform tube flaring		
P.17	Perform tube bending		
P.18	Fabricate flareless fitting tube assemblies		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Maintain Aircraft Fuel Systems (Continued)

CODE	TASK	TAUGHT	COMMENTS
P.19	Fabricate a double flare		
P.20	Fabricate a flexible hose assembly		
P.21	Defuel aircraft		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Maintain Lubrication Systems

CODE	TASK	TAUGHT	COMMENTS
Q.01	Identify and select lubricants		
Q.02	Repair engine lubrication system components		
Q.03	Inspect, check, service, troubleshoot, and repair engine lubrication systems		
Q.04	Inspect oil temperature regulating system		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Maintain Induction Systems

CODE	TASK	TAUGHT	COMMENTS
S.01	Inspect, check, troubleshoot, service, and repair turbo-charger system		
S.02	Inspect, check, service, and repair heat exchangers (inner-coolers) and superchargers		
S.03	Inspect, check, service, and repair carburetor air intake and induction systems		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Maintain Engine Cooling Systems

CODE	TASK	TAUGHT	COMMENTS
T.01	Repair engine cooling system components		
T.02	Inspect, check, service, troubleshoot, and repair cooling systems		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Maintain Aircraft Propellers/Rotors

CODE	TASK	TAUGHT	COMMENTS
V.01	Inspect, check, service, and repair propeller synchronizing and ice control systems		
V.02	Identify and select propeller lubricants		
V.03	Track and balance propellers		
V.04	Repair propeller control system components		
V.05	Inspect and repair fixed-pitch, constant speed, and feathering propellers and systems		
V.06	Troubleshoot, remove, and install propellers		
V.07	Track and balance main rotors		
V.08	Track and adjust tail rotors		
V.09	Inspect, service, troubleshoot, and repair rotor systems		

OCCUPATION: AIRCRAFT INSTRUMENT REPAIR PERSON

DUTY: Inspect and Repair Turbo-Jet and Turbo-Prop Engines

CODE	TASK	TAUGHT	COMMENTS
X.01	Overhaul turbine engine		
X.02	Inspect and repair turbine engine installation		
X.03	Inspect, troubleshoot, and adjust turbine engine components		

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES

OCCUPATION 13: POWER PLANT ELECTRICIAN

DUTIES:

- B. Perform Ground Operations and Servicing Duties
- C. Perform Cleaning and Corrosion Control Operations
- D. Use Maintenance Publications and Maintain Forms and Records
- I. Perform Assembly and Rigging
- M. Maintain Aircraft and Engine Instruments and Avionics Systems
- N. Inspect and Repair Aircraft Electrical Systems
- O. Inspect Aircraft and Engine Fire Protection Systems
- P. Maintain Aircraft Fuel Systems
- Q. Maintain Lubrication Systems
- R. Maintain Ignition Systems
- S. Maintain Induction Systems
- T. Maintain Engine Cooling Systems
- U. Maintain Engine Exhaust Systems
- V. Maintain Aircraft Propellers/Rotors
- X. Inspect and Repair Turbo-Jet and Turbo-Prop Engines

OKLAHOMA OCCUPATIONAL TESTING CENTER

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Perform Ground Operations and Servicing Duties

CODE	TASK	TAUGHT	COMMENTS
B.01	Start aircraft		
B.02	Taxi aircraft		
B.03	Move aircraft		
B.04	Service aircraft		
B.05	Secure aircraft		
B.06	Perform as signal person for taxiing aircraft		
B.07	Perform engine run-up		
B.08	Identify and select fuels		
B.09	Identify and select lubricants		
B.10	Operate radios		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Perform Cleaning and Corrosion Control Operations

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Use Maintenance Publications and Maintain Forms and Records

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Perform Assembly and Rigging

CODE	TASK	TAUGHT	COMMENTS
I.08	Identify and select aircraft hardware and materials		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Maintain Aircraft and Engine Instruments and Avionics Systems

CODE	TASK	TAUGHT	COMMENTS
M.01	Install instruments		
M.02	Inspect and repair heading, speed, altitude, attitude, and position systems		
M.03	Inspect, check, and service auto-pilot and approach control systems		
M.04	Inspect and service electronic communications and navigation systems		
M.05	Inspect and repair antenna and electronic equipment installations		
M.06	Identify and utilize special electronic tools and equipment		
M.07	Troubleshoot, service, and repair fluid rate-of-flow indicating systems		
M.08	Inspect, check, service, and repair engine pressure, temperature, and RPM indicating systems		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Inspect and Repair Aircraft Electrical Systems

CODE	TASK	TAUGHT	COMMENTS
N.01	Repair aircraft electrical system components		
N.02	Install and service electric indicators, protective devices, wiring, and controls		
N.03	Inspect and repair AC and DC current electrical systems		
N.04	Identify and utilize appropriate electrical tools and equipment		
N.05	Inspect, check, and service speed and takeoff warning systems, electrical brake controls, and anti-skid systems		
N.06	Inspect, check, troubleshoot, service, and repair landing gear position indicating and warning systems		
N.07	Repair engine electrical system components		
N.08	Install engine electrical wiring, controls, switches, indicators, and protective devices		
N.09	Determine relationship of voltage, current, and resistance in electrical circuits		
N.10	Compute and measure capacitance and inductance		
N.11	Measure voltage, current, resistance, and continuity		
N.12	Read and interpret electrical circuit diagrams		
N.13	Inspect batteries		
N.14	Service batteries		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Inspect Aircraft and Engine Fire Protection Systems

CODE	TASK	TAUGHT	COMMENTS
O.01	Inspect, check, and service smoke and carbon monoxide detection systems		
O.02	Inspect, check, service, troubleshoot, and repair aircraft fire detection and extinguishing systems		
O.03	Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems		
O.04	Perform special safety wiring		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Maintain Aircraft Fuel Systems

CODE	TASK	TAUGHT	COMMENTS
P.01	Check fuel dump systems		
P.02	Inspect fuel management transfer and defueling system		
P.03	Inspect, check, and repair pressure fuel systems		
P.04	Repair aircraft fuel system components		
P.05	Inspect and repair fluid quantity indicating system		
P.06	Troubleshoot, service, and repair fluid pressure and temperature warning systems		
P.07	Inspect, check, service, troubleshoot, and repair aircraft fuel systems		
P.08	Inspect, check, and service water injection systems		
P.09	Overhaul carburetor		
P.10	Repair engine fuel metering system components		
P.11	Inspect, troubleshoot, and repair reciprocating and turbine engine fuel metering systems		
P.12	Repair engine fuel system components		
P.13	Inspect, check, service, troubleshoot, and repair engine fuel systems		
P.14	Install rigid and flexible fluid lines and fittings		
P.15	Identify and utilize special fluid line tools		
P.16	Perform tube flaring		
P.17	Perform tube bending		
P.18	Fabricate flareless fitting tube assemblies		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Maintain Aircraft Fuel Systems (Continued)

CODE	TASK	TAUGHT	COMMENTS
P.19	Fabricate a double flare		
P.20	Fabricate a flexible hose assembly		
P.21	Defuel aircraft		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Maintain Lubrication Systems

CODE	TASK	TAUGHT	COMMENTS
Q.01	Identify and select lubricants		
Q.02	Repair engine lubrication system components		
Q.03	Inspect, check, service, troubleshoot, and repair engine lubrication systems		
Q.04	Inspect oil temperature regulating system		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Maintain Ignition Systems

CODE	TASK	TAUGHT	COMMENTS
R.01	Overhaul magneto and ignition harness		
R.02	Repair engine ignition components		
R.03	Inspect, check, service, troubleshoot, and repair reciprocating and turbine engine ignition systems		
R.04	Service spark plugs		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Maintain Induction Systems

CODE	TASK	TAUGHT	COMMENTS
S.01	Inspect, check, troubleshoot, service, and repair turbo-charger system		
S.02	Inspect, check, service, and repair heat exchangers (inner-coolers) and superchargers		
S.03	Inspect, check, service, and repair carburetor air intake and induction systems		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Maintain Engine Cooling Systems

CODE	TASK	TAUGHT	COMMENTS
T.01	Repair engine cooling system components		
T.02	Inspect, check, service, troubleshoot, and repair cooling systems		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Maintain Engine Exhaust Systems

CODE	TASK	TAUGHT	COMMENTS
U.01	Repair engine exhaust system components		
U.02	Inspect, check, troubleshoot, service, and repair engine exhaust systems		

OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Maintain Aircraft Propellers/Rotors

CODE	TASK	TAUGHT	COMMENTS
V.01	Inspect, check, service, and repair propeller synchronizing and ice control systems		
V.02	Identify and select propeller lubricants		
V.03	Track and balance propellers		
V.04	Repair propeller control system components		
V.05	Inspect and repair fixed-pitch, constant speed, and feathering propellers and systems		
V.06	Troubleshoot, remove, and install propellers		
V.07	Track and balance main rotors		
V.08	Track and adjust tail rotors		
V.09	Inspect, service, troubleshoot, and repair rotor systems		

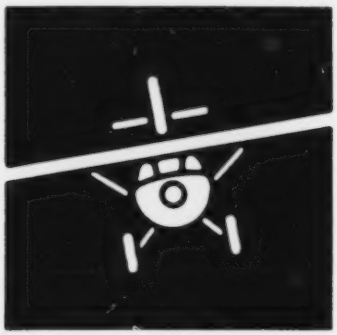
OCCUPATION: POWER PLANT ELECTRICIAN

DUTY: Inspect and Repair Turbo-Jet and Turbo-Prop Engines

CODE	TASK	TAUGHT	COMMENTS
X.01	Overhaul turbine engine		
X.02	Inspect and repair turbine engine installation		
X.03	Inspect, troubleshoot, and adjust turbine engine components		

DUTY/TASK LIST

AIRCRAFT MECHANICS SERIES



OCCUPATION 14: AIRCRAFT WELDER

DUTIES:
- C. Perform Cleaning and Corrosion Control Operations
- D. Use Maintenance Publications and Maintain Forms and Records
- H. Perform Welding
- I. Perform Assembly and Rigging
- J. Maintain Aircraft Landing Gear Systems
- U. Maintain Engine Exhaust Systems
- X. Inspect and Repair Turbo-Jet and Turbo-Prop Engines

OKLAHOMA OCCUPATIONAL TESTING CENTER

OCCUPATION: AIRCRAFT WELDER

DUTY: Perform Cleaning and Corrosion Control Operations

CODE	TASK	TAUGHT	COMMENTS
C.01	Identify cleaning materials		
C.02	Select cleaning materials		
C.03	Perform aircraft cleaning and corrosion control		
C.04	Identify and utilize appropriate equipment for cleaning and corrosion control		
C.05	Identify corrosion type		

OCCUPATION: AIRCRAFT WELDER

DUTY: Use Maintenance Publications and Maintain Forms and Records

CODE	TASK	TAUGHT	COMMENTS
D.01	Select and use FAA and manufacturer's specifications and related regulations		
D.02	Read and interpret technical data		
D.03	Write descriptions of aircraft condition and work performed		
D.04	Complete required maintenance forms, records, and inspection reports		

OCCUPATION: AIRCRAFT WELDER

DUTY: Perform Welding

CODE	TASK	TAUGHT	COMMENTS
H.01	Weld magnesium and titanium		
H.02	Solder stainless steel		
H.03	Fabricate tubular structures		
H.04	Solder, braze, gas-weld, and arc-weld steel		
H.05	Weld aluminum and stainless steel		
H.06	Identify and utilize appropriate welding tools and equipment		
H.07	Identify heat-treated items		
H.08	Apply corrosion preventative covering		

OCCUPATION: AIRCRAFT WELDER

DUTY: Perform Assembly and Rigging

CODE	TASK	TAUGHT	COMMENTS
I.08	Identify and select aircraft hardware and materials		
I.09	Inspect and check welds		

OCCUPATION: AIRCRAFT WELDER

DUTY: Maintain Aircraft Landing Gear Systems

CODE	TASK	TAUGHT	COMMENTS
J.01	Inspect and repair retractable landing gear systems and components		
J.02	Inspect and repair landing gear struts		
J.03	Inspect and repair brakes, wheels, tires, and steering		
J.04	Inspect and repair ski, float, and hull installations		
J.05	Inspect and repair helicopter skids		

OCCUPATION: AIRCRAFT WELDER

DUTY: Maintain Engine Exhaust Systems

CODE	TASK	TAUGHT	COMMENTS
U.01	Repair engine exhaust system components		
U.02	Inspect, check, troubleshoot, service, and repair engine exhaust systems		

OCCUPATION: AIRCRAFT WELDER

DUTY: Inspect and Repair Turbo-Jet and Turbo-Prop Engines

CODE	TASK	TAUGHT	COMMENTS
X.01	Overhaul turbine engine		
X.02	Inspect and repair turbine engine installation		
X.03	Inspect, troubleshoot, and adjust turbine engine components		